

Author Index

Volume 71, July–December 1992

- Abdelmeguid AE, 1049
 Adachi S, 1242
 Ahn HY, 951
 Akai K, 912
 Akata T, 859
 Akita H, 1410
 Alexander LD, 1324
 Alexander RW, 776
 Allen DG, 58
 Allen JC, 1294
 Allen P, 18
 Allen PD, 9
 Ambrosio G, 1447
 Anderson DC, 1518
 Ando H, 481
 Anumonwo JMB, 229, 821
 Anversa P, 346, 1379
 Anyukhovskiy EP, 526
 Apstein CS, 401
 Arai H, 34
 Araki H, 577
 Arentzen CE, 535
 Arisi G, 840
 Arnsdorf MF, 737
 Ashikawa K, 912
 Ashraf M, 96
 Attawia MA, 40
 Avkiran M, 1429
- Badimon JJ, 769
 Baird A, 251
 Baker R, 732
 Barr RC, 260
 Barrett EJ, 393
 Bashore TM, 1174
 Bassett AL, 87
 Baulieu EE, 503
 Bauman RP, 27
 Beckmann J, 3
 Bellotto D, 106
 Bennardini F, 288
 Bennett PB, 732
 Bentivegna LA, 1334
 Benzi RH, 567
 Berger PJ, 443
 Bernstein D, 1465
 Bevan JA, 339
 Beyer EC, 1277
 Bialecki RA, 1008
 Bienvenu K, 906
 Bigaud M, 1185
 Biro S, 640
 Bishara M, 1294
 Blank PS, 870
 Blank RS, 1525
 Bloor CM, 1490
 Boineau JP, 1254
 Bonvalet J-P, 503
 Bouchard RA, 673
 Boyden PA, 1390
 Brand T, 1351
 Braun M, 1305
 Brecher P, 1341
 Brillantes A-M, 18
 Bromberg BI, 1254
 Bruno S, 1379
- Brusilow SW, 1220
 Budanova OP, 526
 Buja LM, 106
- Cabo C, 260
 Callewaert G, 808
 Cambien F, 3
 Capasso JM, 346, 1379
 Capogrossi MC, 870
 Cappelli-Bigazzi M, 1447
 Caraballo BA, 1472
 Carmeliet E, 808
 Carrier L, 3
 Carrier M, 1159
 Carroll SM, 1490
 Carrozza JP Jr, 1334
 Casado MA, 943
 Casscells W, 251
 Catravas JD, 923
 Chacko VP, 1111
 Chapman GD, 27
 Charles R, 240
 Cheng W, 1379
 Chesebro JH, 769
 Chiariello M, 1447
 Chiesi M, 288
 Chobanian A, 1341
 Cinca J, 1131
 Clamp L, 1472
 Cocceani F, 320
 Cohen D, 3
 Colucci WS, 1008
 Condorelli M, 1447
 Connelly CM, 401
 Cook MA, 1101
 Coronel R, 1131
 Corradi C, 840
 Cortese R, 346
 Couraud JY, 1526
 Cox JL, 1254
 Cragoe EJ Jr, 1294, 1314
 Crawford FA, 174
 Culp SC, 27
- Dahl DM, 393
 Dai J, 970
 Darzynkiewicz Z, 1379
 de Jong F, 240
 De Micheli A, 471
 de Tombe PP, 414
 DeFreyte G, 1472
 Deitiker PR, 1404
 Dellsperger KC, 120
 Delmar M, 229, 821
 Desnos M, 3
 Desper JS, 27
 Deussen A, 590
 Dichek DA, 1508
 Doetschman T, 1021
 Doshi R, 1465
 Drew JS, 1067
 Dreyer WJ, 1518
 Dubey RK, 1143
 Dubourg O, 3
 Dufour C, 3
 Duncker DJ, 1351
- Dunham B, 229
 Dunning AJ, 1361
- Eastham CL, 120
 Egashira K, 435
 Eghbali M, 831
 Eid H, 40
 Elizondo E, 1088
 Ellefson RD, 769
 Entman ML, 1518
 Epstein HF, 1404
 Epstein M, 471
 Epstein SE, 640
 Espiner EA, 1501
 Esposito B, 932
- Faber JE, 188
 Fagin JA, 646
 Farber HW, 782
 Farman N, 503
 Farris J, 251
 Farrugia E, 1153
 Faure L, 3
 Fedida D, 673
 Feher JJ, 1049
 Ferguson DG, 1021
 Fernández-Alfonso MS, 943
 Ferrière M, 3
 Fiolet JWT, 1131
 Flameng W, 1123
 Fleidervish IA, 1231
 Fleischmann KE, 1351
 Forrester JS, 646
 Forster H, 471
 Fougerousse F, 3
 Frampton C, 1501
 Fu Y-M, 640
 Fujii M, 120
 Fukunaga K, 1422
 Fulbright BM, 174
 Furukawa T, 535, 1242
 Fuster V, 769
- Gaballa MA, 145
 Gabbasov ZA, 218
 Galiñanes M, 1213
 Gambassi G, 870
 Gammon RS, 27
 Ganim JR, 1021
 Ganz P, 776
 Gasc J-M, 503
 Gelband CH, 745
 Geng Y, 1268
 Giachelli CM, 759
 Giannella-Neto D, 646
 Goings G, 159
 Goknur AB, 210
 Goldman G, 82
 Goldman S, 145
 Golino P, 1447
 Gonzalez AM, 251
 González R, 943
 Gordon AM, 984
 Grady EF, 1482
 Graham RM, 1185
 Granger DN, 906
- Grayson TM, 1254
 Griffin CA, 1482
 Gross SS, 992
 Grossman W, 1334
 Grupp I, 1021
 Gu H, 1314
 Guideri G, 346
 Gutterman DD, 960
- Hagler HK, 106
 Haigney MCP, 547
 Halliwell B, 295
 Hama N, 34
 Hamamori Y, 1410
 Hampton TG, 1174
 Han DKM, 711
 Hannon JD, 984
 Hansson GK, 1268
 Hara Y, 1457
 Harasawa Y, 414
 Harker LA, 1285
 Harmsen E, 1059
 Harrison DG, 120
 Harrison JK, 1174
 Hart PJ, 1002
 Hartz RS, 535
 Harwalkar VA, 1067
 Hasebe N, 423, 1185
 Hauer RNW, 1361
 Haworth RA, 210
 Hayakawa H, 1039
 Hayashi Y, 435
 Hayashida K, 481
 Hearse DJ, 1213
 Hechtman HB, 82
 Heidbüchel H, 808
 Hempel DM, 1185
 Hendrikx M, 1123
 Hengstenberg C, 3
 Henrion D, 339
 Herrmann RA, 883
 Heym C, 1526
 Hiraoka M, 585, 1242
 Hirata K, 1410
 Hirata T, 1220
 Hirata Y, 1039
 Hiratsuka E, 1031
 Hiroe M, 1242
 Hittinger L, 423
 Holme E, 1268
 Holycross BJ, 1525
 Homeister JW, 303
 Hori M, 558
 Horowitz B, 1002
 Hosoda K, 34
 Hu J, 174
 Huang BS, 1059
 Huang S, 1465
 Hume JR, 745, 1002
 Hunter WC, 414
- Ibuki C, 1429
 Ihara T, 423
 Ikeda U, 1457
 Ikram H, 1501
 Illiano S, 137

- Imamura S, 1031
Imamura T, 357
Imura H, 34, 614
Inoue M, 558, 577
Inoue N, 1410
Ishida Y, 620
Ishihara K, 1472
Ito H, 1242
Itoh T, 70
Iwai K, 558
Izumo S, 9, 18
- Jalife J, 229
Janse MJ, 240, 1131, 1361
Jasper JR, 1465
Jeck CD, 1390
Jia H, 535
Joly GA, 331
Jougasaki M, 577, 614
Junquero DC, 1088
- Kadambi V, 1021
Kahn AM, 1294
Kahn ML, 1508
Kaley G, 790
Kalinyak JE, 1482
Kamada T, 558
Kaminski PM, 720
Kamitani T, 1457
Kamm RD, 850
Kamyar A, 646
Kanatsuka H, 912
Kanazawa S, 1472
Kangawa K, 1039
Kanno M, 1441
Kaplan P, 1123
Karlinsky JB, 782
Karmazyn M, 1101
Kass DA, 490
Katayama A, 106
Kawahara Y, 620
Kawakami K, 1457
Kawano S, 585
Kawasaki H, 357
Kawase T, 951
Kelly RA, 40
Kelly RP, 490
Kenyon JL, 1002
Khouri DS, 511
Kieval RS, 127
Kim HW, 1021
Kimura M, 1031
Kimura S, 87
Kingma JH, 1361
Kishimoto I, 34
Kitabatake A, 558
Kitakaze M, 558
Kiuchi K, 1185
Kléber AG, 460
Klein JL, 776
Klimaschewski L, 1526
Kloner RA, 1165
Kluft C, 385
Kobzik L, 82
Koehler RC, 1220
Kohmoto O, 1039
Koide M, 620
Kojima M, 1039
Kojima T, 1457
Kolbeck-Rühmkorff C, 451
Koller A, 790
Komajda M, 3
Komamura K, 423
Komaru T, 912
- Komatsu Y, 34
Kranias EG, 1021
Kroeker TS, 1078
Kroll K, 590
Kugiyama K, 614, 1422
Kummer W, 1526
Kuntz RE, 1334
Kupfer J, 646
Kuriyama H, 70, 859
Kusuoka H, 1111
- Laher I, 339
Lakatta EG, 547, 605, 870
Lal R, 737
Lam JYT, 769
Lamers WH, 240
Lamp ST, 1324
Lamping KG, 120
Lankat-Buttgereit B, 451
Larson DM, 40
Larson TS, 1153
Laurier J, 365
Lavallée M, 365
Lee JA, 58
Lee RT, 850
Lee SW, 1508
Leenen FHH, 1059
Leinwand LA, 1
Leppla DC, 201
Lerch R, 567
Levesque PC, 1002
Levi R, 992
Levy MN, 898
Li P, 346, 1379
Liau G, 711
Libby P, 1
Liedtke AJ, 689
Lim CS, 27
Litwin SE, 797
Lockhart JC, 1153
Lombès M, 503
Longhurst JC, 295
Loree HM, 850
Lucchesi BR, 303
Luo W, 1021
Lux RL, 840
- Maamarbachi O, 365
Macchi E, 840
Magnet A, 1490
Majesky MW, 759, 1285
Makielski JC, 1231
Malhotra A, 346
Malik AB, 1015
Malinauskas RA, 883
Mamuya W, 1341
Manders WT, 423
Manoukian SV, 776
Mansell AL, 701
Marban E, 1111
Marin J, 943
Marks AR, 18
Martyn DA, 984
Marumo F, 1242
Maseri A, 385
Matsuda Y, 1410
Matsuo H, 1039
Matsuoka H, 1039
Matsuoka R, 1031
Mattheussen M, 1123
Mayer B, 1526
McAteer AL, 701
McCarty NA, 1294
McFalls EO, 1351
- Medford RM, 1457
Meij JTA, 970
Merval R, 932
Messina EJ, 790
Mészáros J, 376
Michael LH, 1518
Miller FJ, 960
Minamino N, 1039
Miyamoto E, 1422
Miyata H, 547, 605
Mombouli J-V, 137
Momma K, 1314
Moore EN, 127
Moorman AFM, 240
Moreland RS, 951
Moreland S, 951
Morgan DA, 960
Morgan JP, 631, 797, 1334
Morley GE, 821
Mubagwa K, 1123
Mukherjee R, 174
Mukoyama M, 34
Muntz KH, 51
Muramoto J, 577
Murohara T, 1422
Muto S, 1457
Myerburg RJ, 87
- Nabel EG, 776
Nadal-Ginard B, 1
Nagano K, 1457
Nagano T, 451
Nagao T, 137
Nagatsu M, 1472
Nakagawa O, 34
Nakamura F, 585
Nakamura M, 435, 481
Nakanishi T, 1314
Nakano K, 1472
Nakao K, 34, 614
Nakashima M, 859
Nakaya H, 1441
Nattel S, 271
Navran SS, 1294
Nayak RC, 40
Nellis SH, 689
Neumann JC, 1021
Ngoy S, 401
Nguyen T, 1518
Nikashin AV, 526
Nishi K, 577
Nishigaki K, 188
Nishimura J, 951
Nitta J, 1242
Noma M, 481
Nuno DW, 120
- Oblin M-E, 503
Ogawa Y, 34
Oguchi A, 1457
Ohgushi M, 1422
Ohyanagi M, 188
Okazaki H, 1285
O'Neil RG, 1294
Onodera T, 96
Opthof T, 240, 1131
Orekhov AN, 218
Overbeck HW, 1143
Ovize M, 1165
Owens GK, 1525
- Padua R, 970
Page E, 159
Pagé P, 271
- Panagia V, 970
Paré R, 365
Pareja A, 943
Parent R, 365
Park KH, 992
Pasipoularides AD, 1174
Pastan I, 640
Paterson IS, 82
Patrick TA, 423
Peach MJ, 1525
Pelletier CL, 1159
Philippin B, 1526
Pipkin AC, 701
Pirola CJ, 646
Po S, 732
Ponniiah S, 1021
Ponte A, 943
Popov EG, 218
Preissler U, 1526
Proctor KG, 720
Przyklenk K, 1165
- Quax PHA, 385
- Ragni M, 1447
Rauner D, 393
Raya TE, 145
Reed RK, 978
Reidy MA, 759
Renstrom B, 689
Renwick GH, 776
Richards AM, 1501
Roberts R, 1404
Roberts WL, 883
Rodgers R, 1379
Rodríguez-Mañas L, 943
Rodd SA, 978
Rosen MR, 526
Rossen RD, 1518
Rosenfeld RG, 646
Rosenquist TH, 923
Rounds S, 782
Roy A, 1143
Rubin K, 978
Rubin LE, 992
Rudy Y, 511
Russell J, 906
Russolillo E, 1447
Ryan JW, 923
Rybin VO, 526
- Sacrez A, 3
Saito Y, 614
Sakakibara Y, 535
Sánchez-Ferrer CF, 943
Sato H, 558
Sato K, 912
Satoh P, 303
Sawanobori T, 1242
Schambelan M, 1482
Schaper W, 1351
Schini VB, 331, 1088
Schoen FJ, 401
Schrör K, 1305
Schuessler RB, 1254
Schwartz K, 3
Schwartz SM, 759, 1285
Scott-Burden T, 137, 1088
Sechi LA, 1482
Seguchi M, 1314
Seidel CL, 1294
Sekiguchi N, 912
Selwyn AP, 776
Sen L, 1008

- Shafiq J, 70
 Sharifi B, 646
 Sharma HS, 1351
 Shelat H, 1294
 Shen Y-T, 423
 Shepro D, 82
 Sheriff DD, 414
 Shii K, 620
 Shim Y, 1174
 Shimada K, 1457
 Shirakami G, 34
 Siegall CB, 640
 Silverman HS, 547, 605
 Simard JM, 201
 Simon BR, 145
 Singer DH, 535
 SippensGroenewegen A, 1361
 Smirnov VN, 218
 Smith CW, 1518
 Smith E, 1008
 Smith TW, 40, 1008
 Smolich JJ, 443
 Snyders DJ, 732
 Sobenin IA, 218
 Soust M, 443
 Spaan JAE, 1200
 Spear JF, 127
 Speir E, 251, 640
 Spekhorst H, 1361
 Sperelakis N, 376
 Spero LA, 1174
 Sperti G, 385
 Spinale FG, 174
 Springhorn JP, 40
 Spurgeon HA, 870
 Stack RS, 27
 Stahl GL, 295
 Stein LA, 1067
 Stern MD, 547, 605
 Straley CA, 1174
 Strandness E, 1465
 Strauss HC, 1
 Stringfellow RG, 850
 Stuart JS, 1324
 Suga S, 34
 Sugama Y, 1015
 Sugimachi M, 481
 Sugimoto To, 1039
 Sugimoto Ts, 1039
 Sugiyama S, 1422
 Sun D, 790
 Sunagawa K, 481
 Suzuki E, 1039
 Suzuki S, 70
 Swain JL, 27
 Sweet IR, 590
 Taccardi B, 840
 Taguchi T, 357
 Takahashi H, 1220
 Takahashi T, 9, 18
 Takao A, 1031
 Takasaki K, 357
 Takashima S, 558
 Takemura G, 96
 Takenaka T, 471
 Takeshita A, 435
 Takishima T, 912
 Tamkun MM, 732
 Tanaka R, 174
 Tanaka T, 585
 Tanner V, 251
 Tedgui A, 932
 Tertov VV, 218
 Thandroyen FT, 106
 Thompson MM, 1525
 Tohse N, 376, 1441
 Tomita M, 1472
 Tomoike H, 435
 Topouzis S, 923
 Trabka-Janik E, 229
 Traystman RJ, 1220
 Treasure CB, 776
 Tronc F, 1159
 Truskey GA, 883
 Tseng G-N, 657
 Tseng-Crank J, 657
 Tsuda T, 620
 Tsujino M, 1242
 Tsuruya Y, 1457
 Tunin R, 490
 Uemura N, 1185
 Undrovinas AI, 1231
 Upshaw-Earley J, 159
 Valeri CR, 82
 van Breemen C, 951
 van Hemel NM, 1361
 van Leeuwen RTJ, 385
 VanBavel E, 1200
 Vanhoutte PM, 137, 331, 1088
 Vatner DE, 1185
 Vatner SF, 1, 423, 1185
 Veenstra RD, 229, 1277
 Venkatesh N, 1324
 Verdouw PD, 1351
 Vereecke J, 808
 Vita JA, 776
 Vosberg H-P, 3
 Vybiral T, 1404
 Walker AM, 443
 Wang H-Z, 229, 1277
 Wang J, 631
 Wang Y, 320, 912
 Wang Z, 271
 Warner MR, 1078
 Wasserstrom JA, 535
 Weiss JN, 1324
 Welbourn R, 82
 West GA, 201
 Westphale EM, 1277
 White FC, 1490
 Wiig H, 978
 Wilde AAM, 240
 Willerson JT, 106
 Williams CP, 1334
 Wilms-Schopman FJG, 1131
 Wittert GA, 1501
 Wolin MS, 790
 Wrzosek A, 288
 Xi H, 87
 Yamada A, 435
 Yamada M, 1410
 Yamamoto K, 1457
 Yan G-X, 460
 Yandle TG, 1501
 Yang T, 898
 Yao J, 831
 Yaroslavov AA, 218
 Yasue H, 614, 1422
 Yokoyama M, 620, 1410
 Young LH, 393
 Yu H, 1059
 Zierhut W, 451
 Zile MR, 174, 1472
 Zimmer H-G, 451
 Zipes DP, 1078

Subject Index

Volume 71, July–December 1992

A

A-type potassium channel

Differential Effects of Elevating $[K]_o$ on Three Transient Outward Potassium Channels: Dependence on Channel Inactivation Mechanisms, 657

Abnormal automaticity

Positive Chronotropic Responses Induced by α_1 -Adrenergic Stimulation of Normal and "Ischemic" Purkinje Fibers Have Different Receptor–Effector Coupling Mechanisms, 526

Acetylcholine

Epicardial Coronary Artery Responses to Acetylcholine Are Impaired in Hypertensive Patients, 776

Extracellular and Intracellular Actions of Adenosine and Related Compounds in the Reperfused Rat Intestine, 720

Membrane-Bound Nucleoside Diphosphate Kinase Activity in Atrial Cells of Frog, Guinea Pig, and Human, 808

Sequence of Excitation as a Factor in Sympathetic–Parasympathetic Interactions in the Heart, 898

Acidic fibroblast growth factor

In Vitro Effects of a Recombinant Toxin Targeted to the Fibroblast Growth Factor Receptor on Rat Vascular Smooth Muscle and Endothelial Cells, 640

Acidosis

Changes in Extracellular and Intracellular pH in Ischemic Rabbit Papillary Muscle, 460

Endothelin Reverses the Effects of Acidosis on the Intracellular Ca^{2+} Transient and Contractility in Ferret Myocardium, 631

Actin

α B-Crystallin in Cardiac Tissue: Association With Actin and Desmin Filaments, 288

Action potential duration

Mechanism of Flecainide's Antiarrhythmic Action in Experimental Atrial Fibrillation, 271

Activation shift

Inward Sodium Current at Resting Potentials in Single Cardiac Myocytes Induced by the Ischemic Metabolite Lysophosphatidylcholine, 1231

Acute inflammation

Blockade of β_1 -Integrins in Skin Causes Edema Through Lowering of Interstitial Fluid Pressure, 978

Adenine nucleotide metabolism

Effects of Norepinephrine on the Oxidative Pentose Phosphate Pathway in the Rat Heart, 451

Adenosine

Microvascular Sites and Mechanisms Responsible for Reactive Hyperemia in the Coronary Circulation of the Beating Canine Heart, 912

Nitric Oxide Is a Mediator of Hypoxic Coronary Vasodilatation: Relation to Adenosine and Cyclooxygenase-Derived Metabolites, 992

ADP

Extracellular and Intracellular Actions of Adenosine and Related Compounds in the Reperfused Rat Intestine, 720

Product Inhibition of the Actomyosin Subfragment-1 ATPase in Skeletal, Cardiac, and Smooth Muscle, 1067

α_1 -Adrenergic receptors

Interaction Between Microvascular α_1 - and α_2 -Adrenoceptors and Endothelium-Derived Relaxing Factor, 188

Mechanisms of α_1 -Adrenergic Vascular Desensitization in Conscious Dogs, 1185

Transcriptional Regulation of Left Ventricular β -Adrenergic Receptors During Chronic Hypoxia, 1465

α_1 -Adrenoceptors

α_1 -Adrenoceptor Stimulation Enhances the Delayed Rectifier K^+ Current of Guinea Pig Ventricular Cells Through the Activation of Protein Kinase C, 1441

Different Effects of α and β -Adrenergic Stimulation on Cytosolic pH and Myofilament Responsiveness to Ca^{2+} in Cardiac Myocytes, 870

Mechanisms for the Positive Inotropic Effect of α_1 -Adrenoceptor Stimulation in Rat Cardiac Myocytes, 673

β -Adrenergic receptors

Autoradiographic Characterization of β -Adrenergic Receptor Subtype in the Canine Conduction System, 51

Captopril Enhances Intracellular Calcium Handling and β -Adrenergic Responsiveness of Myocardium From Rats With Postinfarction Failure, 797

β -Adrenoceptors

Different Effects of α - and β -Adrenergic Stimulation on Cytosolic pH and Myofilament Responsiveness to Ca^{2+} in Cardiac Myocytes, 870

Adult myocytes

HCO_3^- -Dependent Intracellular pH Regulation in the Premature Myocardium, 1314

Aequorin

Decreased Myofilament Responsiveness in Myocardial Stunning Follows Transient Calcium Overload During Ischemia and Reperfusion, 1334

Endothelin Reverses the Effects of Acidosis on the Intracellular Ca^{2+} Transient and Contractility in Ferret Myocardium, 631

Afferent arterioles

Impaired Myogenic Responsiveness of Renal Microvessels in Dahl Salt-Sensitive Rats, 471

Afferents

Hydrogen Peroxide-Induced Cardiovascular Reflexes: Role of Hydroxyl Radicals, 295

Age-related changes

Age-Related Changes in Fibronectin Expression in Spontaneously Hypertensive, Wistar-Kyoto, and Wistar Rat Hearts, 1341

Albumin concentration

Albumin Transport Characteristics of Rat Aorta in Early Phase of Hypertension, 932

Aldosterone

Immunohistochemical and Biochemical Evidence for a Cardiovascular Mineralocorticoid Receptor, 503

Aminoimidazole carboxamide riboside

Extracellular and Intracellular Actions of Adenosine and Related Compounds in the Reperfused Rat Intestine, 720

4-Aminopyridine

Mechanisms for the Positive Inotropic Effect of α_1 -Adrenoceptor Stimulation in Rat Cardiac Myocytes, 673

Ammonia

Restoration of Cerebrovascular CO_2 Responsivity by Glutamine Synthesis Inhibition in Hyperammonemic Rats, 1220

AMP

Extracellular and Intracellular Actions of Adenosine and Related Compounds in the Reperfused Rat Intestine, 720

Angioplasty

Gene Transfer Into Coronary Arteries of Intact Animals With a Percutaneous Balloon Catheter, 27

In Vitro Effects of a Recombinant Toxin Targeted to the Fibroblast Growth Factor Receptor on Rat Vascular Smooth Muscle and Endothelial Cells, 640

Angiotensin converting enzyme

Influence of Vascular Smooth Muscle Heterogeneity on Angiotensin Converting Enzyme Activity in Chicken Embryonic Aorta and in Endothelial Cells in Culture, 923

Angiotensin I converting enzyme

Potential of Endothelium-Dependent Relaxations to Bradykinin by Angiotensin I Converting Enzyme Inhibitors in Canine Coronary Artery Involves Both Endothelium-Derived Relaxing and Hyperpolarizing Factors, 137

Angiotensin II

Angiotensin II Stimulates Two Myelin Basic Protein/Microtubule-Associated Protein 2 Kinases in Cultured Vascular Smooth Muscle Cells, 620

Effect of Inhibition of Endopeptidase 24.11 on Responses to Angiotensin II in Human Volunteers, 1501

Time Course of Left Ventricular Function After Cardiac Denervation in Conscious Dogs, 365

Angiotensin II receptors

Characterization of Angiotensin II Receptor Subtypes in Rat Heart, 1482

Anoxia

Relation of Mitochondrial and Cytosolic Free Calcium to Cardiac Myocyte Recovery After Exposure to Anoxia, 605

Antiarrhythmic drugs

Functional Expression of an Inactivating Potassium Channel Cloned From Human Heart, 732

Mechanism of Flecainide's Antiarrhythmic Action in Experimental Atrial Fibrillation, 271

Aorta

Albumin Transport Characteristics of Rat Aorta in Early Phase of Hypertension, 932

Influence of Vascular Smooth Muscle Heterogeneity on Angiotensin Converting Enzyme Activity in Chicken Embryonic Aorta and in Endothelial Cells in Culture, 923

Aortic input impedance

Effect of Reduced Aortic Compliance on Cardiac Efficiency and Contractile Function of In Situ Canine Left Ventricle, 490

Ejection Load Changes in Aortic Stenosis: Observations Made After Balloon Aortic Valvuloplasty, 1174

Arrhythmia mechanisms

Mechanism of Flecainide's Antiarrhythmic Action in Experimental Atrial Fibrillation, 271

Arrhythmias

Gap Junctional Conductance in Ventricular Myocyte Pairs Isolated From Postischemic Rabbit Myocardium, 127

Arterial injury

Cod Liver Oil Alters Platelet-Arterial Wall Response to Injury in Pigs, 769

Arterial smooth muscle cells

Cholesterol Increases the L-Type Voltage-Sensitive Calcium Channel Current in Arterial Smooth Muscle Cells, 1008

Arterial wall

Measurement of Endothelial Permeability to ^{125}I -Low Density Lipoproteins in Rabbit Arteries by Use of En Face Preparations, 883

Arterioles

Interaction Between Microvascular α_1 - and α_2 -Adrenoceptors and Endothelium-Derived Relaxing Factor, 188

Atherosclerosis

Balloon Injury and Interleukin-1 β Induce Nitric Oxide Synthase Activity in Rat Carotid Arteries, 331

Cholesterol Increases the L-Type Voltage-Sensitive Calcium Channel Current in Arterial Smooth Muscle Cells, 1008

Effects of Fibrous Cap Thickness on Peak Circumferential Stress in Model Atherosclerotic Vessels, 850

Suppression of Endothelin-1 Secretion by Lysophosphatidylcholine in Oxidized Low Density Lipoprotein in Cultured Vascular Endothelial Cells, 614

Three Types of Naturally Occurring Modified Lipoproteins Induce Intracellular Lipid Accumulation Due to Lipoprotein Aggregation, 218

ATP

ATP Dependence of Calcium Uptake by the Na-Ca Exchanger of Adult Heart Cells, 210

Extracellular and Intracellular Actions of Adenosine and Related Compounds in the Reperfused Rat Intestine, 720

ATP-sensitive K^+ channel

Activation of ATP-Sensitive K^+ Channels by Cromakalim: Effects on Cellular K^+ Loss and Cardiac Function in Ischemic and Reperfused Mammalian Ventricle, 1324

Effects of 2,4-Dinitrophenol or Low [ATP] on Cell Excitability and Action Potential Propagation in Guinea Pig Ventricular Myocytes, 821

Microvascular Sites and Mechanisms Responsible for Reactive Hyperemia in the Coronary Circulation of the Beating Canine Heart, 912

ATPase

Product Inhibition of the Actomyosin Subfragment-1 ATPase in Skeletal, Cardiac, and Smooth Muscle, 1067

Atrial fibrillation

Cholinergically Mediated Tachyarrhythmias Induced by a Single Extrastimulus in the Isolated Canine Right Atrium, 1254

Mechanism of Flecainide's Antiarrhythmic Action in Experimental Atrial Fibrillation, 271

Atrial natriuretic factor

Effect of Inhibition of Endopeptidase 24.11 on Responses to Angiotensin II in Human Volunteers, 1501

Expression of A-, B-, and C-Type Natriuretic Peptide Genes in Failing and Developing Human Ventricles: Correlation With Expression of the Ca^{2+} -ATPase Gene, 9

Atrial natriuretic peptide secretion

Permeability of Rat Atrial Endocardium, Epicardium, and Myocardium to Large Molecules: Stretch-Dependent Effects, 159

Autonomic nervous system

Sequence of Excitation as a Factor in Sympathetic-Parasympathetic Interactions in the Heart, 898

Autoradiography

Measurement of Endothelial Permeability to ^{125}I -Low Density Lipoproteins in Rabbit Arteries by Use of En Face Preparations, 883

Autoregulation

Impaired Myogenic Responsiveness of Renal Microvessels in Dahl Salt-Sensitive Rats, 471

B **αB -crystallin**

αB -Crystallin in Cardiac Tissue: Association With Actin and Desmin Filaments, 288

Balloon catheter injury

Regulation of Platelet-Derived Growth Factor Ligand and Receptor Gene Expression by α -Thrombin in Vascular Smooth Muscle Cells, 1285

Balloon injury

Balloon Injury and Interleukin-1 β Induce Nitric Oxide Synthase Activity in Rat Carotid Arteries, 331

Basilar artery

Effects of External pH on Ionic Currents in Smooth Muscle Cells From the Basilar Artery of the Guinea Pig, 201

Biochemistry

Myocardial Mechanical, Biochemical, and Structural Alterations Induced by Chronic Ethanol Ingestion in Rats, 346

Biomechanics

Effects of Fibrous Cap Thickness on Peak Circumferential Stress in Model Atherosclerotic Vessels, 850

Blood pressure

Effect of Inhibition of Endopeptidase 24.11 on Responses to Angiotensin II in Human Volunteers, 1501

Hydrogen Peroxide-Induced Cardiovascular Reflexes: Role of Hydroxyl Radicals, 295

Blood vessel-parenchyma interdependence

Maturation of Interdependence Between Extra-alveolar Arteries and Lung Parenchyma in Piglets, 701

Blood vessels

Immunohistochemical and Biochemical Evidence for a Cardiovascular Mineralocorticoid Receptor, 503

Intraluminal Flow Increases Vascular Tone and $^{45}\text{Ca}^{2+}$ Influx in the Rabbit Facial Vein, 339

Body surface mapping

Body Surface Mapping of Ectopic Left Ventricular Activation: QRS Spectrum in Patients With Prior Myocardial Infarction, 1361

Bradykinin

Potentialization of Endothelium-Dependent Relaxations to Bradykinin by Angiotensin I Converting Enzyme Inhibitors in Canine Coronary Artery Involves Both Endothelium-Derived Relaxing and Hyperpolarizing Factors, 137

Brain death

Brain Death-Induced Impairment of Cardiac Contractile Performance Can Be Reversed by Explantation and May Not Preclude the Use of Hearts for Transplantation, 1213

Brain natriuretic peptide

Expression of A-, B-, and C-Type Natriuretic Peptide Genes in Failing and Developing Human Ventricles: Correlation With Expression of the Ca^{2+} -ATPase Gene, 9

Brain ouabain-like activity

Brain Ouabain-Like Activity and the Sympathoexcitatory and Pressor Effects of Central Sodium in Rats, 1059

Breakthrough sites

Epicardial Excitation During Ventricular Pacing: Relative Independence of Breakthrough Sites From Excitation Sequence in Canine Right Ventricle, 840

C**c-fos mRNA expression**

Culture of Renal Arterial Smooth Muscle Cells: Mitogenic Responses to Angiotensin II, 1143

C-type natriuretic peptide

Expression of A-, B-, and C-Type Natriuretic Peptide Genes in Failing and Developing Human Ventricles: Correlation With Expression of the Ca^{2+} -ATPase Gene, 9

 Ca^{2+} channels

Effects of External pH on Ionic Currents in Smooth Muscle Cells From the Basilar Artery of the Guinea Pig, 201
Ionic Currents in Single Smooth Muscle Cells of the Canine Renal Artery, 745

 Ca^{2+} release

Effect of Perfusate $[\text{Ca}^{2+}]$ on Cardiac Sarcoplasmic Reticulum Ca^{2+} Release Channel in Isolated Rat Hearts, 1049

 Ca^{2+} sensitivity

Effects of Cycling and Rigor Crossbridges on the Conformation of Cardiac Troponin C, 984

 Ca^{2+} transient

Endothelin Reverses the Effects of Acidosis on the Intracellular Ca^{2+} Transient and Contractility in Ferret Myocardium, 631

 Ca^{2+} uptake

Effect of Perfusate $[\text{Ca}^{2+}]$ on Cardiac Sarcoplasmic Reticulum Ca^{2+} Release Channel in Isolated Rat Hearts, 1049

Caffeine

Effect of Caffeine on Expression of Cardiac Myosin Heavy Chain Gene in Adult Hypothyroid and Fetal Rats, 1031

Calcitonin gene-related peptide

Endogenous Calcitonin Gene-Related Peptide Mediates Nonadrenergic Noncholinergic Depressor Response to Spinal Cord Stimulation in the Pithed Rat, 357

Calcitonin gene-related peptide [8-37]

Endogenous Calcitonin Gene-Related Peptide Mediates Nonadrenergic Noncholinergic Depressor Response to Spinal Cord Stimulation in the Pithed Rat, 357

Calcium

Captopril Enhances Intracellular Calcium Handling and β -Adrenergic Responsiveness of Myocardium From Rats With Postinfarction Failure, 797

Cellular Mechanisms for Synthesis and Secretion of Atrial Natriuretic Peptide and Brain Natriuretic Peptide in Cultured Rat Atrial Cells, 1039

Decreased Myofilament Responsiveness in Myocardial Stunning Follows Transient Calcium Overload During Ischemia and Reperfusion, 1334

Different Effects of α - and β -Adrenergic Stimulation on Cytosolic pH and Myofilament Responsiveness to Ca^{2+} in Cardiac Myocytes, 870

Effect of Ischemia and Reperfusion on Sarcoplasmic Reticulum Calcium Uptake, 1123

Calcium channel

Effect of Perfusate $[\text{Ca}^{2+}]$ on Cardiac Sarcoplasmic Reticulum Ca^{2+} Release Channel in Isolated Rat Hearts, 1049

Calcium channels

Cholesterol Increases the L-Type Voltage-Sensitive Calcium Channel Current in Arterial Smooth Muscle Cells, 1008

Calcium influx

Intraluminal Flow Increases Vascular Tone and $^{45}\text{Ca}^{2+}$ Influx in the Rabbit Facial Vein, 339

Calcium overload

ATP Dependence of Calcium Uptake by the Na-Ca Exchanger of Adult Heart Cells, 210

Myocardial Energetics During Ventricular Fibrillation Investigated by Magnetization Transfer Nuclear Magnetic Resonance Spectroscopy, 1111

Calcium release channel

Differences in Cardiac Calcium Release Channel (Ryanodine Receptor) Expression in Myocardium From Patients With End-Stage Heart Failure Caused by Ischemic Versus Dilated Cardiomyopathy, 18

Calcium slow channels

Developmental Changes in Long-Opening Behavior of L-Type Ca^{2+} Channels in Embryonic Chick Heart Cells, 376

Calcium transients

Mechanisms for the Positive Inotropic Effect of α_1 -Adrenoceptor Stimulation in Rat Cardiac Myocytes, 673

Calcium uptake

Intraluminal Flow Increases Vascular Tone and $^{45}\text{Ca}^{2+}$ Influx in the Rabbit Facial Vein, 339

cAMP

Effect of Caffeine on Expression of Cardiac Myosin Heavy Chain Gene in Adult Hypothyroid and Fetal Rats, 1031

Mechanisms of Vasodilation Induced by NKH477, a Water-Soluble Forskolin Derivative, in Smooth Muscle of the Porcine Coronary Artery, 70

Prostaglandin D_2 Relaxes Bovine Coronary Arteries by Endothelium-Dependent Nitric Oxide-Mediated cGMP Formation, 1305

Capillary fluid flux

Blockade of β_1 -Integrins in Skin Causes Edema Through Lowering of Interstitial Fluid Pressure, 978

Captopril

Captopril Enhances Intracellular Calcium Handling and β -Adrenergic Responsiveness of Myocardium From Rats With Postinfarction Failure, 797

Ventricular Loading Is Coupled With DNA Synthesis in Adult Cardiac Myocytes After Acute and Chronic Myocardial Infarction in Rats, 1379

Carbon dioxide

Restoration of Cerebrovascular CO_2 Responsivity by Glutamine Synthesis Inhibition in Hyperammonemic Rats, 1220

Cardiac actin

Exclusion of Cardiac Myosin Heavy Chain and Actin Gene Involvement in Hypertrophic Cardiomyopathy of Several French Families, 3

Cardiac denervation

Time Course of Left Ventricular Function After Cardiac Denervation in Conscious Dogs, 365

Cardiac development

Multiple Connexins Confer Distinct Regulatory and Conductance Properties of Gap Junctions in Developing Heart, 1277

Cardiac electrophysiology

Voltage-Dependent Gating and Single-Channel Conductance of Adult Mammalian Atrial Gap Junctions, 737

Cardiac muscle

Changes in Intracellular Free Calcium Concentration During Long Exposures to Simulated Ischemia in Isolated Mammalian Ventricular Muscle, 58

Expression of Cystic Fibrosis Transmembrane Regulator Cl^- Channels in Heart, 1002

Product Inhibition of the Actomyosin Subfragment-1 ATPase in Skeletal, Cardiac, and Smooth Muscle, 1067

Cardiac myocytes

Different Effects of α - and β -Adrenergic Stimulation on Cytosolic pH and Myofilament Responsiveness to Ca^{2+} in Cardiac Myocytes, 870

Voltage-Dependent Gating and Single-Channel Conductance of Adult Mammalian Atrial Gap Junctions, 737

Cardiac myosin heavy chain gene

Effect of Caffeine on Expression of Cardiac Myosin Heavy Chain Gene in Adult Hypothyroid and Fetal Rats, 1031

Cardiac myosin heavy chains

Exclusion of Cardiac Myosin Heavy Chain and Actin Gene Involvement in Hypertrophic Cardiomyopathy of Several French Families, 3

Cardiac output

Indirect Relation Between Rises in Oxygen Consumption and Left Ventricular Output at Birth in Lambs, 443

Cardiac protection

Adenosine A_1 Receptor Activation Attenuates Cardiac Injury Produced by Hydrogen Peroxide, 1101

Cardiac sodium channel

Inward Sodium Current at Resting Potentials in Single Cardiac Myocytes Induced by the Ischemic Metabolite Lysophosphatidylcholine, 1231

Cardiocyte

Regulation of Na,K-ATPase Gene Expression by Thyroid Hormone in Rat Cardiocytes, 1457

Cardiocytes

Acidic and Basic Fibroblast Growth Factors in Adult Rat Heart Myocytes: Localization, Regulation in Culture, and Effects on DNA Synthesis, 251

Cardiomyocytes

α_1 -Adrenoceptor Stimulation Enhances the Delayed Rectifier K^+ Current of Guinea Pig Ventricular Cells Through the Activation of Protein Kinase C, 1441

Cardiomyopathy

Relation Between Ventricular and Myocyte Function With Tachycardia-Induced Cardiomyopathy, 174

Carvedilol

Effects of Norepinephrine on the Oxidative Pentose Phosphate Pathway in the Rat Heart, 451

Cat

Hydrogen Peroxide-Induced Cardiovascular Reflexes: Role of Hydroxyl Radicals, 295

Catecholamine

Mechanisms of α_1 -Adrenergic Vascular Desensitization in Conscious Dogs, 1185

Catecholamines

Effects of Norepinephrine on the Oxidative Pentose Phosphate Pathway in the Rat Heart, 451

cDNA expression

Differential Effects of Elevating $[\text{K}]_o$ on Three Transient Outward Potassium Channels: Dependence on Channel Inactivation Mechanisms, 657

Cell coupling

Gap Junctional Conductance in Ventricular Myocyte Pairs Isolated From Posts ischemic Rabbit Myocardium, 127

Cell culture

Platelet-Derived Growth Factor-BB-Induced Suppression of Smooth Muscle Cell Differentiation, 1518

Cell cultures

Three Types of Naturally Occurring Modified Lipoproteins Induce Intracellular Lipid Accumulation Due to Lipoprotein Aggregation, 218

Cell injury

Subcellular Electrolyte Alterations During Progressive Hypoxia and Following Reoxygenation in Isolated Neonatal Rat Ventricular Myocytes, 106

Cell-cell interaction

Role of Epicardial Mesothelial Cells in the Modification of Phenotype and Function of Adult Rat Ventricular Myocytes in Primary Coculture, 40

Cellular Ca^{2+} concentration

Mechanisms of Vasodilation Induced by NKH477, a Water-Soluble Forskolin Derivative, in Smooth Muscle of the Porcine Coronary Artery, 70

Cellular electrophysiology

Characterization of the Sodium Current in Single Human Atrial Myocytes, 535

Central hypertonic saline

Brain Ouabain-like Activity and the Sympathoexcitatory and Pressor Effects of Central Sodium in Rats, 1059

Cerebral blood flow

Restoration of Cerebrovascular CO_2 Responsivity by Glutamine Synthesis Inhibition in Hyperammonemic Rats, 1220

cGMP

Nitric Oxide Is a Mediator of Hypoxic Coronary Vasodilatation: Relation to Adenosine and Cyclooxygenase-Derived Metabolites, 992

Prostaglandin D_2 Relaxes Bovine Coronary Arteries by Endothelium-Dependent Nitric Oxide-Mediated cGMP Formation, 1305

Channels

Multiple Connexins Confer Distinct Regulatory and Conductance Properties of Gap Junctions in Developing Heart, 1277

Chemotaxis

Kinetics of C5a Release in Cardiac Lymph of Dogs Experiencing Coronary Artery Ischemia-Reperfusion Injury, 1518

Chicks

Multiple Connexins Confer Distinct Regulatory and Conductance Properties of Gap Junctions in Developing Heart, 1277

Chloride channel

Cardiac Sarcoplasmic Reticulum Chloride Channels Regulated by Protein Kinase A, 585

Expression of Cystic Fibrosis Transmembrane Regulator Cl^- Channels in Heart, 1002

Cholesterol

Cholesterol Increases the L-Type Voltage-Sensitive Calcium Channel Current in Arterial Smooth Muscle Cells, 1008

 Cl^- transport

Effects of Serotonin on Intracellular pH and Contraction in Vascular Smooth Muscle, 1294

Cod liver oil

Cod Liver Oil Alters Platelet-Arterial Wall Response to Injury in Pigs, 769

Competitiveness

Ejection Load Changes in Aortic Stenosis: Observations Made After Balloon Aortic Valvuloplasty, 1174

Complement

Kinetics of C5a Release in Cardiac Lymph of Dogs Experiencing Coronary Artery Ischemia-Reperfusion Injury, 1518

Complementarity

Ejection Load Changes in Aortic Stenosis: Observations Made After Balloon Aortic Valvuloplasty, 1174

Conduction system

Authoradiographic Characterization of β -Adrenergic Receptor Subtype in the Canine Conduction System, 51

Persisting Zones of Slow Impulse Conduction in Developing Chicken Hearts, 240

Conduction velocity

Persisting Zones of Slow Impulse Conduction in Developing Chicken Hearts, 240

Connexins

Multiple Connexins Confer Distinct Regulatory and Conductance Properties of Gap Junctions in Developing Heart, 1277

Connexons

Voltage-Dependent Gating and Single-Channel Conductance of Adult Mammalian Atrial Gap Junctions, 737

Contractile function

Partial Coronary Stenosis Is Sufficient and Complete Reperfusion Is Mandatory for Preconditioning the Canine Heart, 1165

Contractile proteins

Mechanisms of Vasodilation Induced by NKH477, a Water-Soluble Forskolin Derivative, in Smooth Muscle of the Porcine Coronary Artery, 70

Contraction

Endothelin Reverses the Effects of Acidosis on the Intracellular Ca^{2+} Transient and Contractility in Ferret Myocardium, 631
 Intraluminal Flow Increases Vascular Tone and $^{45}\text{Ca}^{2+}$ Influx in the Rabbit Facial Vein, 339

Cooperativity

Inward Sodium Current at Resting Potentials in Single Cardiac Myocytes Induced by the Ischemic Metabolite Lysophosphatidylcholine, 1231

Coronary artery

Effects on the Rabbit Coronary Artery of LP-805, a New Type of Releaser of Endothelium-Derived Relaxing Factor and a K^+ Channel Opener, 859
 Epicardial Coronary Artery Responses to Acetylcholine Are Impaired in Hypertensive Patients, 776
 Gene Transfer Into Coronary Arteries of Intact Animals With a Percutaneous Balloon Catheter, 27

Coronary blood flow

Superoxide Dismutase Enhances Ischemia-Induced Reactive Hyperemic Flow and Adenosine Release in Dogs: A Role of 5'-Nucleotidase Activity, 558

Coronary circulation

Branching Patterns in the Porcine Coronary Arterial Tree: Estimation of Flow Heterogeneity, 1200
 Coronary Blood Flow After the Regression of Pressure-Overload Left Ventricular Hypertrophy, 1472
 Mechanism of Ergonovine-Induced Hyperconstriction of the Large Epicardial Coronary Artery in Conscious Dogs a Month After Arterial Injury, 435

Coronary disease

Effects of Fibrous Cap Thickness on Peak Circumferential Stress in Model Atherosclerotic Vessels, 850

Coronary microcirculation

Microvascular Sites and Mechanisms Responsible for Reactive Hyperemia in the Coronary Circulation of the Beating Canine Heart, 912

Coronary occlusion

Biomechanical Properties of Reperfused Transmural Myocardial Infarcts in Rabbits During the First Week After Infarction: Implications for Left Ventricular Rupture, 401

Coronary stenosis

Partial Coronary Stenosis Is Sufficient and Complete Reperfusion Is Mandatory for Preconditioning the Canine Heart, 1165

Coronary vasospasm

Mechanism of Ergonovine-Induced Hyperconstriction of the Large Epicardial Coronary Artery in Conscious Dogs a Month After Arterial Injury, 435

Cremaster muscle

Role of Endothelium-Derived Prostaglandins in Hypoxia-Elicited Arteriolar Dilation in Rat Skeletal Muscle, 790

Cromakalim

Activation of ATP-Sensitive K^+ Channels by Cromakalim: Effects on Cellular K^+ Loss and Cardiac Function in Ischemic and Reperfused Mammalian Ventricle, 1324

Crossbridge cycling

Endothelin Increases Myofilament Ca^{2+} Sensitivity in α -Toxin-Permeabilized Rabbit Mesenteric Artery, 951

Crossbridges

Effects of Cycling and Rigor Crossbridges on the Conformation of Cardiac Troponin C, 984

Cyanide

Verapamil Diminishes Action Potential Changes During Metabolic Inhibition by Blocking ATP-Regulated Potassium Currents, 87

Cyanotic congenital heart disease

Transcriptional Regulation of Left Ventricular β -Adrenergic Receptors During Chronic Hypoxia, 1465

Cyclic AMP

Expression of Cystic Fibrosis Transmembrane Regulator Cl^- Channels in Heart, 1002

Cyclic flow reductions

Endothelium-Derived Relaxing Factor Modulates Platelet Aggregation in an In Vivo Model of Recurrent Platelet Activation, 1447

Cystic fibrosis transmembrane regulator

Expression of Cystic Fibrosis Transmembrane Regulator Cl^- Channels in Heart, 1002

Cytosolic free calcium

Lysophosphatidylcholine Inhibits Surface Receptor-Mediated Intracellular Signals in Endothelial Cells by a Pathway Involving Protein Kinase C Activation, 1422

Cytosolic pH

Different Effects of α - and β -Adrenergic Stimulation on Cytosolic pH and Myofilament Responsiveness to Ca^{2+} in Cardiac Myocytes, 870

Cytosolic $[\text{Ca}^{2+}]$

Relation of Mitochondrial and Cytosolic Free Calcium to Cardiac Myocyte Recovery After Exposure to Anoxia, 605

D**DEAE-dextran**

Optimization of Retroviral Vector-Mediated Gene Transfer Into Endothelial Cells In Vitro, 1508

Delayed excitation

Reflection After Delayed Excitation in a Computer Model of a Single Fiber, 260

Delayed rectifier K^+ current

α_1 -Adrenoceptor Stimulation Enhances the Delayed Rectifier K^+ Current of Guinea Pig Ventricular Cells Through the Activation of Protein Kinase C, 1441

Desensitization

Mechanisms of α_1 -Adrenergic Vascular Desensitization in Conscious Dogs, 1185

Desmin

α B-Crystallin in Cardiac Tissue: Association With Actin and Desmin Filaments, 288

Developing hearts

Developmental Changes in Long-Opening Behavior of L-Type Ca^{2+} Channels in Embryonic Chick Heart Cells, 376

Development

Identification and Characterization of Developmentally Regulated Genes in Vascular Smooth Muscle Cells, 711
 Mouse Phospholamban Gene Expression During Development In Vivo and In Vitro, 1021

Differentiation

Role of Epicardial Mesothelial Cells in the Modification of Phenotype and Function of Adult Rat Ventricular Myocytes in Primary Coculture, 40

DiFrancesco-Noble model

Reflection After Delayed Excitation in a Computer Model of a Single Fiber, 260

Digitoxin

Brain Ouabain-Like Activity and the Sympathoexcitatory and Pressor Effects of Central Sodium in Rats, 1059

Dihydropyridines

Cholesterol Increases the L-Type Voltage-Sensitive Calcium Channel Current in Arterial Smooth Muscle Cells, 1008

4,4'-Diisothiocyanostilbene-2,2'-disulfonic acid

Effects of Serotonin on Intracellular pH and Contraction in Vascular Smooth Muscle, 1294

2,4-Dinitrophenol

Effects of 2,4-Dinitrophenol or Low $[\text{ATP}]_i$ on Cell Excitability and Action Potential Propagation in Guinea Pig Ventricular Myocytes, 821

Dipyridamole

Extracellular and Intracellular Actions of Adenosine and Related Compounds in the Reperfused Rat Intestine, 720

DNA synthesis

Coronary Collateral Development in Swine After Coronary Artery Occlusion, 1490

DNA transfection

Decreased Collagen Gene Expression and Absence of Fibrosis in Thyroid Hormone-Induced Myocardial Hypertrophy: Re-

sponse of Cardiac Fibroblasts to Thyroid Hormone In Vitro, 831

Dogs

Mechanisms of α_1 -Adrenergic Vascular Desensitization in Conscious Dogs, 1185

Drug interaction

Inward Sodium Current at Resting Potentials in Single Cardiac Myocytes Induced by the Ischemic Metabolite Lysophosphatidylcholine, 1231

Dual coronary perfusion

Reperfusion-Induced Arrhythmias: A Role for Washout of Extracellular Protons? 1429

E

EC 2.7.4.6

Membrane-Bound Nucleoside Diphosphate Kinase Activity in Atrial Cells of Frog, Guinea Pig, and Human, 808

Ectopic ventricular beats

Epicardial Excitation During Ventricular Pacing: Relative Independence of Breakthrough Sites From Excitation Sequence in Canine Right Ventricle, 840

Edema

Blockade of β_1 -Integrins in Skin Causes Edema Through Lowering of Interstitial Fluid Pressure, 978

Editorial

Cellular and Molecular Biology of the Cardiovascular System, 1

Effective arterial elastance

Mechanical Matching of the Left Ventricle With the Arterial System in Exercising Dogs, 481

Eicosapentaenoic Acid

Cod Liver Oil Alters Platelet-Arterial Wall Response to Injury in Pigs, 769

Electrocardiography

Mechanism of Flecainide's Antiarrhythmic Action in Experimental Atrial Fibrillation, 271

Elements

Subcellular Electrolyte Alterations During Progressive Hypoxia and Following Reoxygenation in Isolated Neonatal Rat Ventricular Myocytes, 106

Embryo

Influence of Vascular Smooth Muscle Heterogeneity on Angiotensin Converting Enzyme Activity in Chicken Embryonic Aorta and in Endothelial Cells in Culture, 923

Embryoid bodies

Mouse Phospholamban Gene Expression During Development In Vivo and In Vitro, 1021

Embryonic chicken hearts

Persisting Zones of Slow Impulse Conduction in Developing Chicken Hearts, 240

Embryonic heart cells

Developmental Changes in Long-Opening Behavior of L-Type Ca^{2+} Channels in Embryonic Chick Heart Cells, 376

End-systolic elastance

Mechanical Matching of the Left Ventricle With the Arterial System in Exercising Dogs, 481

Endocardial potential

A Model Study of Volume Conductor Effects on Endocardial and Intracavitary Potentials, 511

Endocardium

Permeability of Rat Atrial Endocardium, Epicardium, and Myocardium to Large Molecules: Stretch-Dependent Effects, 159

Endocrine

Decreased Collagen Gene Expression and Absence of Fibrosis in Thyroid Hormone-Induced Myocardial Hypertrophy: Response of Cardiac Fibroblasts to Thyroid Hormone In Vitro, 831

Endocytosis

Permeability of Rat Atrial Endocardium, Epicardium, and Myocardium to Large Molecules: Stretch-Dependent Effects, 159

Endopeptidase 24.11

Effect of Inhibition of Endopeptidase 24.11 on Responses to Angiotensin II in Human Volunteers, 1501

Endothelial adhesivity

Thrombin Receptor 14-Amino Acid Peptide Mediates Endothelial Hyperadhesivity and Neutrophil Adhesion by P-Selectin-Dependent Mechanism, 1015

Endothelial cell

Comprehensive Model of Transport and Metabolism of Adenosine and S-Adenosylhomocysteine in the Guinea Pig Heart, 590

Coronary Collateral Development in Swine After Coronary Artery Occlusion, 1490

Effects of Hypoxia on Heparan Sulfate in Bovine Aortic and Pulmonary Artery Endothelial Cells, 782

Interaction Between Microvascular α_1 - and α_2 -Adrenoceptors and Endothelium-Derived Relaxing Factor, 188

Lysophosphatidylcholine Inhibits Surface Receptor-Mediated Intracellular Signals in Endothelial Cells by a Pathway Involving Protein Kinase C Activation, 1422

Optimization of Retroviral Vector-Mediated Gene Transfer Into Endothelial Cells In Vitro, 1508

Endothelial permeability

Albumin Transport Characteristics of Rat Aorta in Early Phase of Hypertension, 932

Endothelin

Cellular Mechanisms for Synthesis and Secretion of Atrial Natriuretic Peptide and Brain Natriuretic Peptide in Cultured Rat Atrial Cells, 1039

Endothelin Increases Myofilament Ca^{2+} Sensitivity in α -Toxin-Permeabilized Rabbit Mesenteric Artery, 951

Isolated Pulmonary Resistance Vessels From Fetal Lambs: Contractile Behavior and Responses to Indomethacin and Endothelin-1, 320

Suppression of Endothelin-1 Secretion by Lysophosphatidylcholine in Oxidized Low Density Lipoprotein in Cultured Vascular Endothelial Cells, 614

Endothelin-1

Endothelin-1 Enhances Calcium Entry Through T-Type Calcium Channels in Cultured Neonatal Rat Ventricular Myocytes, 1242

Endothelin Reverses the Effects of Acidosis on the Intracellular Ca^{2+} Transient and Contractility in Ferret Myocardium, 631

Endothelium

Endothelial Modulation of the Ouabain-Induced Contraction in Human Placental Vessels, 943

Epicardial Coronary Artery Responses to Acetylcholine Are Impaired in Hypertensive Patients, 776

Influence of Vascular Smooth Muscle Heterogeneity on Angiotensin Converting Enzyme Activity in Chicken Embryonic Aorta and in Endothelial Cells in Culture, 923

Measurement of Endothelial Permeability to ^{125}I -Low Density Lipoproteins in Rabbit Arteries by Use of En Face Preparations, 883

Mechanism of Ergonovine-Induced Hyperconstriction of the Large Epicardial Coronary Artery in Conscious Dogs a Month After Arterial Injury, 435

Permeability of Rat Atrial Endocardium, Epicardium, and Myocardium to Large Molecules: Stretch-Dependent Effects, 159

Role of Endothelium-Derived Prostaglandins in Hypoxia-Elicited Arteriolar Dilation in Rat Skeletal Muscle, 790

Role of Neutrophil Adherence Receptors (CD 18) in Lung Permeability Following Lower Torso Ischemia, 82

Endothelium-derived hyperpolarizing factor

Effects on the Rabbit Coronary Artery of LP-805, a New Type of Releaser of Endothelium-Derived Relaxing Factor and a K^+ Channel Opener, 859

Potential of Endothelium-Dependent Relaxations to Bradykinin by Angiotensin I Converting Enzyme Inhibitors in Canine Coronary Artery Involves Both Endothelium-Derived Relaxing and Hyperpolarizing Factors, 137

Endothelium-derived relaxing factor

Effects on the Rabbit Coronary Artery of LP-805, a New Type of Releaser of Endothelium-Derived Relaxing Factor and a K^+ Channel Opener, 859

- Endothelium-Derived Relaxing Factor Modulates Platelet Aggregation in an In Vivo Model of Recurrent Platelet Activation, 1447
- Interaction Between Microvascular α_1 - and α_2 -Adrenoceptors and Endothelium-Derived Relaxing Factor, 188
- Lysophosphatidylcholine Inhibits Bradykinin-Induced Phosphoinositide Hydrolysis and Calcium Transients in Cultured Bovine Aortic Endothelial Cells, 1410
- Energetics**
- Comprehensive Model of Transport and Metabolism of Adenosine and S-Adenosylhomocysteine in the Guinea Pig Heart, 590
- Energy metabolism**
- Adenosine A₁ Receptor Activation Attenuates Cardiac Injury Produced by Hydrogen Peroxide, 1101
- Myocardial Energetics During Ventricular Fibrillation Investigated by Magnetization Transfer Nuclear Magnetic Resonance Spectroscopy, 1111
- Epicardial isochrons**
- Epicardial Excitation During Ventricular Pacing: Relative Independence of Breakthrough Sites From Excitation Sequence in Canine Right Ventricle, 840
- Epicardial myocytes**
- Age-Related Appearance of Outward Currents May Contribute to Developmental Differences in Ventricular Repolarization, 1390
- Epicardial potential mapping**
- Epicardial Excitation During Ventricular Pacing: Relative Independence of Breakthrough Sites From Excitation Sequence in Canine Right Ventricle, 840
- Epicardium**
- Permeability of Rat Atrial Endocardium, Epicardium, and Myocardium to Large Molecules: Stretch-Dependent Effects, 159
- Ergonovine**
- Mechanism of Ergonovine-Induced Hyperconstriction of the Large Epicardial Coronary Artery in Conscious Dogs a Month After Arterial Injury, 435
- Ethanol**
- Myocardial Mechanical, Biochemical, and Structural Alterations Induced by Chronic Ethanol Ingestion in Rats, 346
- 5-(N-Ethyl-N-isopropyl)amiloride**
- Effects of Serotonin on Intracellular pH and Contraction in Vascular Smooth Muscle, 1294
- Euglycemia**
- Correlation Between [^3H]Glucose and [^{14}C]Deoxyglucose as Markers of Glycolysis in Reperfused Myocardium, 689
- Excitability**
- Effects of 2,4-Dinitrophenol or Low [ATP] on Cell Excitability and Action Potential Propagation in Guinea Pig Ventricular Myocytes, 821
- Excitation-contraction coupling**
- Functional Expression of an Inactivating Potassium Channel Cloned From Human Heart, 732
- Exclusion**
- Exclusion of Cardiac Myosin Heavy Chain and Actin Gene Involvement in Hypertrophic Cardiomyopathy of Several French Families, 3
- Extracellular matrix**
- Decreased Collagen Gene Expression and Absence of Fibrosis in Thyroid Hormone-Induced Myocardial Hypertrophy: Response of Cardiac Fibroblasts to Thyroid Hormone In Vitro, 831
- Rat Carotid Neointimal Smooth Muscle Cells Reexpress a Developmentally Regulated mRNA Phenotype During Repair of Arterial Injury, 759
- Extracellular matrix degradation**
- Cultured Rat Aortic Vascular Smooth Muscle Cells Digest Naturally Produced Extracellular Matrix: Involvement of Plasminogen-Dependent and Plasminogen-Independent Pathways, 385
- Extracellular pH**
- Changes in Extracellular and Intracellular pH in Ischemic Rabbit Papillary Muscle, 460
- Extracellular potassium**
- Reperfusion Arrhythmias in Isolated Perfused Pig Hearts: Inhomogeneities in Extracellular Potassium, ST and TQ Potentials, and Transmembrane Action Potentials, 1131
- Extracellular potassium accumulation**
- Differential Effects of Elevating $[\text{K}]_o$ on Three Transient Outward Potassium Channels: Dependence on Channel Inactivation Mechanisms, 657
- Extracellular potassium concentration**
- Sympathetic Stimulation and Norepinephrine Infusion Modulate Extracellular Potassium Concentration During Acute Myocardial Ischemia, 1078
- F**
- Familial hypertrophic cardiomyopathy**
- Exclusion of Cardiac Myosin Heavy Chain and Actin Gene Involvement in Hypertrophic Cardiomyopathy of Several French Families, 3
- Fatty acids**
- Dissociation Between Contractile Function and Oxidative Metabolism in Posts ischemic Myocardium: Attenuation by Ruthenium Red Administered During Reperfusion, 567
- Fetal bovine serum**
- Platelet-Derived Growth Factor-BB-Induced Suppression of Smooth Muscle Cell Differentiation, 1525
- Fetal heart**
- Expression of A-, B-, and C-Type Natriuretic Peptide Genes in Failing and Developing Human Ventricles: Correlation With Expression of the Ca^{2+} -ATPase Gene, 9
- Fetus**
- Indirect Relation Between Rises in Oxygen Consumption and Left Ventricular Output at Birth in Lambs, 443
- Isolated Pulmonary Resistance Vessels From Fetal Lambs: Contractile Behavior and Responses to Indomethacin and Endothelin-1, 320
- Fibroblast growth factor receptors**
- Acidic and Basic Fibroblast Growth Factors in Adult Rat Heart Myocytes: Localization, Regulation in Culture, and Effects on DNA Synthesis, 251
- Fibronectin**
- Age-Related Changes in Fibronectin Expression in Spontaneously Hypertensive, Wistar-Kyoto, and Wistar Rat Hearts, 1341
- Finite element models**
- Arterial Mechanics in Spontaneously Hypertensive Rats: Mechanical Properties, Hydraulic Conductivity, and Two-Phase (Solid/Fluid) Finite Element Models, 145
- Flecainide**
- Mechanism of Flecainide's Antiarrhythmic Action in Experimental Atrial Fibrillation, 271
- Floating objective**
- Microvascular Sites and Mechanisms Responsible for Reactive Hyperemia in the Coronary Circulation of the Beating Canine Heart, 912
- Flow**
- Intraluminal Flow Increases Vascular Tone and $^{45}\text{Ca}^{2+}$ Influx in the Rabbit Facial Vein, 339
- Flow cytometry**
- Ventricular Loading Is Coupled With DNA Synthesis in Adult Cardiac Myocytes After Acute and Chronic Myocardial Infarction in Rats, 1379
- Flow heterogeneity**
- Branching Patterns in the Porcine Coronary Arterial Tree: Estimation of Flow Heterogeneity, 1200
- Fluorescence videomicroscopy**
- Relation Between Vasa Recta Blood Flow and Renal Interstitial Hydrostatic Pressure During Pressure Natriuresis, 1153
- Forskolin derivative**
- Mechanisms of Vasodilation Induced by NKH477, a Water-Soluble Forskolin Derivative, in Smooth Muscle of the Porcine Coronary Artery, 70
- Fractals**
- Branching Patterns in the Porcine Coronary Arterial Tree: Estimation of Flow Heterogeneity, 1200

Free radical

Hydrogen Peroxide-Induced Cardiovascular Reflexes: Role of Hydroxyl Radicals, 295

FUT-175

Effects of Complement Activation in the Isolated Heart: Role of the Terminal Complement Components, 303

G**G proteins**

Membrane-Bound Nucleoside Diphosphate Kinase Activity in Atrial Cells of Frog, Guinea Pig, and Human, 808

Gap junctions

Effects of 2,4-Dinitrophenol or Low [ATP] on Cell Excitability and Action Potential Propagation in Guinea Pig Ventricular Myocytes, 821

Gap Junctional Channels in Adult Mammalian Sinus Nodal Cells: Immunolocalization and Electrophysiology, 229

Gap Junctional Conductance in Ventricular Myocyte Pairs Isolated From Postischemic Rabbit Myocardium, 127

Multiple Connexins Confer Distinct Regulatory and Conductance Properties of Gap Junctions in Developing Heart, 1277

Voltage-Dependent Gating and Single-Channel Conductance of Adult Mammalian Atrial Gap Junctions, 737

Gating modification

Inward Sodium Current at Resting Potentials in Single Cardiac Myocytes Induced by the Ischemic Metabolite Lysophosphatidylcholine, 1231

Gene expression

Decreased Collagen Gene Expression and Absence of Fibrosis in Thyroid Hormone-Induced Myocardial Hypertrophy: Response of Cardiac Fibroblasts to Thyroid Hormone In Vitro, 831

Identification and Characterization of Developmentally Regulated Genes in Vascular Smooth Muscle Cells, 711

Proto-oncogene Expression in Porcine Myocardium Subjected to Ischemia and Reperfusion, 1351

Gene transfer

Gene Transfer Into Coronary Arteries of Intact Animals With a Percutaneous Balloon Catheter, 27

Optimization of Retroviral Vector-Mediated Gene Transfer Into Endothelial Cells In Vitro, 1508

Gizzard

Product Inhibition of the Actomyosin Subfragment-1 ATPase in Skeletal, Cardiac, and Smooth Muscle, 1067

Glibenclamide-sensitive K⁺ channel

Effects on the Rabbit Coronary Artery of LP-805, a New Type of Releaser of Endothelium-Derived Relaxing Factor and a K⁺ Channel Opener, 859

Glucose

Dissociation Between Contractile Function and Oxidative Metabolism in Postischemic Myocardium: Attenuation by Ruthenium Red Administered During Reperfusion, 567

Glucose-6-phosphate dehydrogenase

Effects of Norepinephrine on the Oxidative Pentose Phosphate Pathway in the Rat Heart, 451

Glutamine

Restoration of Cerebrovascular CO₂ Responsivity by Glutamine Synthesis Inhibition in Hyperammonemic Rats, 1220

Glycogen

Correlation Between [5-³H]Glucose and [U-¹⁴C]Deoxyglucose as Markers of Glycolysis in Reperfused Myocardium, 689

Glycolysis

Correlation Between [5-³H]Glucose and [U-¹⁴C]Deoxyglucose as Markers of Glycolysis in Reperfused Myocardium, 689

GTP regulatory proteins

Positive Chronotropic Responses Induced by α_1 -Adrenergic Stimulation of Normal and "Ischemic" Purkinje Fibers Have Different Receptor-Effector Coupling Mechanisms, 526

H**H-7**

α_1 -Adrenoceptor Stimulation Enhances the Delayed Rectifier K⁺ Current of Guinea Pig Ventricular Cells Through the Activation of Protein Kinase C, 1441

HCO₃⁻-Cl⁻ exchange

HCO₃⁻-Dependent Intracellular pH Regulation in the Premature Myocardium, 1314

HCO₃⁻ transport

Effects of Serotonin on Intracellular pH and Contraction in Vascular Smooth Muscle, 1294

Heart

Adenosine A₁ Receptor Activation Attenuates Cardiac Injury Produced by Hydrogen Peroxide, 1101

Autoradiographic Characterization of β -Adrenergic Receptor Subtype in the Canine Conduction System, 51

α B-Crystallin in Cardiac Tissue: Association With Actin and Desmin Filaments, 288

Changes in Intracellular Free Calcium Concentration During Long Exposures to Simulated Ischemia in Isolated Mammalian Ventricular Muscle, 58

Characterization of Angiotensin II Receptor Subtypes in Rat Heart, 1482

Immunohistochemical and Biochemical Evidence for a Cardiovascular Mineralocorticoid Receptor, 503

Mechanisms for the Positive Inotropic Effect of α_1 -Adrenoceptor Stimulation in Rat Cardiac Myocytes, 673

Mouse Phospholamban Gene Expression During Development In Vivo and In Vitro, 1021

Nitric Oxide Synthase in Cardiac Nerve Fibers and Neurons of Rat and Guinea Pig Heart, 1526

Heart-derived fibroblast growth factors

Acidic and Basic Fibroblast Growth Factors in Adult Rat Heart Myocytes: Localization, Regulation in Culture, and Effects on DNA Synthesis, 251

Heart failure

Captopril Enhances Intracellular Calcium Handling and β -Adrenergic Responsiveness of Myocardium From Rats With Postinfarction Failure, 797

Expression of A-, B-, and C-Type Natriuretic Peptide Genes in Failing and Developing Human Ventricles: Correlation With Expression of the Ca²⁺-ATPase Gene, 9

Heart rate

Basal Metabolism Adds a Significant Offset to Unloaded Myocardial Oxygen Consumption per Minute, 414

Mechanism of Flecainide's Antiarrhythmic Action in Experimental Atrial Fibrillation, 271

Sequence of Excitation as a Factor in Sympathetic-Parasympathetic Interactions in the Heart, 898

Heart transplantation

Brain Death-Induced Impairment of Cardiac Contractile Performance Can Be Reversed by Explantation and May Not Preclude the Use of Hearts for Transplantation, 1213

Heparan sulfate

Effects of Hypoxia on Heparan Sulfate in Bovine Aortic and Pulmonary Artery Endothelial Cells, 782

Heparin

Heparin Adheres to the Damaged Arterial Wall and Inhibits Its Thrombogenicity, 577

Hibernating myocardium

Mechanisms of Subendocardial Dysfunction in Response to Exercise in Dogs With Severe Left Ventricular Hypertrophy, 423

H₂O₂

Adenosine A₁ Receptor Activation Attenuates Cardiac Injury Produced by Hydrogen Peroxide, 1101

Homocysteine

Comprehensive Model of Transport and Metabolism of Adenosine and S-Adenosylhomocysteine in the Guinea Pig Heart, 590

Human atrium

Characterization of the Sodium Current in Single Human Atrial Myocytes, 535

Human Ca²⁺-ATPase

Expression of A-, B-, and C-Type Natriuretic Peptide Genes in Failing and Developing Human Ventricles: Correlation With Expression of the Ca²⁺-ATPase Gene, 9

Human myofibrillar proteins

Accumulation and Assembly of Myosin in Hypertrophic Cardiomyopathy With the 403 Arg to Gln β -Myosin Heavy Chain Mutation, 1404

Human placental vessels

Endothelial Modulation of the Ouabain-Induced Contraction in Human Placental Vessels, 943

Human umbilical vein endothelial cells

Thrombin Receptor 14-Amino Acid Peptide Mediates Endothelial Hyperadhesivity and Neutrophil Adhesion by P-Selectin-Dependent Mechanism, 1015

Hydraulic conductivity

Arterial Mechanics in Spontaneously Hypertensive Rats: Mechanical Properties, Hydraulic Conductivity, and Two-Phase (Solid/Fluid) Finite Element Models, 145

Hydrogen peroxide

Depression of Cardiac Sarcolemmal Phospholipase D Activity by Oxidant-Induced Thiol Modification, 970

Hydroxyl radical

Quantification of Hydroxyl Radical and Its Lack of Relevance to Myocardial Injury During Early Reperfusion After Graded Ischemia in Rat Hearts, 96

Hyperglycemia

Correlation Between [$5\text{-}^3\text{H}$]Glucose and [$U\text{-}^{14}\text{C}$]Deoxyglucose as Markers of Glycolysis in Reperfused Myocardium, 689

Hyperinsulinemia

Physiological Hyperinsulinemia Inhibits Myocardial Protein Degradation In Vivo in the Canine Heart, 393

Hyperplasia

Culture of Renal Arteriolar Smooth Muscle Cells: Mitogenic Responses to Angiotensin II, 1143

Hypertension

Albumin Transport Characteristics of Rat Aorta in Early Phase of Hypertension, 932

Culture of Renal Arteriolar Smooth Muscle Cells: Mitogenic Responses to Angiotensin II, 1143

Epicardial Coronary Artery Responses to Acetylcholine Are Impaired in Hypertensive Patients, 776

Hypertrophy

Culture of Renal Arteriolar Smooth Muscle Cells: Mitogenic Responses to Angiotensin II, 1143

Decreased Collagen Gene Expression and Absence of Fibrosis in Thyroid Hormone-Induced Myocardial Hypertrophy: Response of Cardiac Fibroblasts to Thyroid Hormone In Vitro, 831

Endothelin-1 Enhances Calcium Entry Through T-Type Calcium Channels in Cultured Neonatal Rat Ventricular Myocytes, 1242

Hypochlorous acid

Depression of Cardiac Sarcolemmal Phospholipase D Activity by Oxidant-Induced Thiol Modification, 970

Hypoxia

Dependence of Hypoxic Cellular Calcium Loading on $\text{Na}^+\text{-Ca}^{2+}$ Exchange, 547

Nitric Oxide Is a Mediator of Hypoxic Coronary Vasodilatation: Relation to Adenosine and Cyclooxygenase-Derived Metabolites, 992

Role of Endothelium-Derived Prostaglandins in Hypoxia-Elicited Arteriolar Dilation in Rat Skeletal Muscle, 790

Subcellular Electrolyte Alterations During Progressive Hypoxia and Following Reoxygenation in Isolated Neonatal Rat Ventricular Myocytes, 106

Transcriptional Regulation of Left Ventricular β -Adrenergic Receptors During Chronic Hypoxia, 1465

Hypoxic coronary vasodilatation

Nitric Oxide Is a Mediator of Hypoxic Coronary Vasodilatation: Relation to Adenosine and Cyclooxygenase-Derived Metabolites, 992

IAANS

Effects of Cycling and Rigor Crossbridges on the Conformation of Cardiac Troponin C, 984

Idiopathic dilated cardiomyopathy

Differences in Cardiac Calcium Release Channel (Ryanodine Receptor) Expression in Myocardium From Patients With End-Stage Heart Failure Caused by Ischemic Versus Dilated Cardiomyopathy, 18

Immunofluorescence

Accumulation and Assembly of Myosin in Hypertrophic Cardiomyopathy With the 403 Arg to Gln β -Myosin Heavy Chain Mutation, 1404

Inactivation

Inward Sodium Current at Resting Potentials in Single Cardiac Myocytes Induced by the Ischemic Metabolite Lysophosphatidylcholine, 1231

Indo-1

Different Effects of α - and β -Adrenergic Stimulation on Cytosolic pH and Myofilament Responsiveness to Ca^{2+} in Cardiac Myocytes, 870

Relation of Mitochondrial and Cytosolic Free Calcium to Cardiac Myocyte Recovery After Exposure to Anoxia, 605

Infarct healing

Biomechanical Properties of Reperfused Transmural Myocardial Infarcts in Rabbits During the First Week After Infarction: Implications for Left Ventricular Rupture, 401

Inflammatory mediators

Leukotriene B_4 Mediates Shear Rate-Dependent Leukocyte Adhesion in Mesenteric Venules, 906

Innervation

Nitric Oxide Synthase in Cardiac Nerve Fibers and Neurons of Rat and Guinea Pig Heart, 1526

Inositol 1,4,5-trisphosphate

Lysophosphatidylcholine Inhibits Surface Receptor-Mediated Intracellular Signals in Endothelial Cells by a Pathway Involving Protein Kinase C Activation, 1422

Insulin-like growth factor

Platelet-Derived Growth Factor Isoforms Decrease Insulin-like Growth Factor I Gene Expression in Rat Vascular Smooth Muscle Cells and Selectively Stimulate the Biosynthesis of Insulin-like Growth Factor Binding Protein 4, 646

Insulin-like growth factor binding protein

Platelet-Derived Growth Factor Isoforms Decrease Insulin-like Growth Factor I Gene Expression in Rat Vascular Smooth Muscle Cells and Selectively Stimulate the Biosynthesis of Insulin-like Growth Factor Binding Protein 4, 646

 β_1 -Integrins

Blockade of β_1 -Integrins in Skin Causes Edema Through Lowering of Interstitial Fluid Pressure, 978

Interferon gamma

Interferon- γ and Tumor Necrosis Factor Synergize to Induce Nitric Oxide Production and Inhibit Mitochondrial Respiration in Vascular Smooth Muscle Cells, 1268

Interleukin-1 β

Balloon Injury and Interleukin-1 β Induce Nitric Oxide Synthase Activity in Rat Carotid Arteries, 331

Platelet-Derived Growth Factor Suppresses and Fibroblast Growth Factor Enhances Cytokine-Induced Production of Nitric Oxide by Cultured Smooth Muscle Cells: Effects on Cell Proliferation, 1088

Interlobular artery

Impaired Myogenic Responsiveness of Renal Microvessels in Dahl Salt-Sensitive Rats, 471

Interstitial fluid pressure

Blockade of β_1 -Integrins in Skin Causes Edema Through Lowering of Interstitial Fluid Pressure, 978

Intestinal ischemia

Leukotriene B_4 Mediates Shear Rate-Dependent Leukocyte Adhesion in Mesenteric Venules, 906

Intracavitary potential

A Model Study of Volume Conductor Effects on Endocardial and Intracavitary Potentials, 511

Intracellular calcium concentration

Lysophosphatidylcholine Inhibits Bradykinin-Induced Phosphoinositide Hydrolysis and Calcium Transients in Cultured Bovine Aortic Endothelial Cells, 1410

Intracellular free calcium concentration

Changes in Intracellular Free Calcium Concentration During Long Exposures to Simulated Ischemia in Isolated Mammalian Ventricular Muscle, 58

Intracellular pH

Changes in Extracellular and Intracellular pH in Ischemic Rabbit Papillary Muscle, 460

HCO₃⁻-Dependent Intracellular pH Regulation in the Premature Myocardium, 1314

Ionic currents

Ionic Currents in Single Smooth Muscle Cells of the Canine Renal Artery, 745

Ischemia

ATP Dependence of Calcium Uptake by the Na-Ca Exchanger of Adult Heart Cells, 210

α B-Crystallin in Cardiac Tissue: Association With Actin and Desmin Filaments, 288

Brain Death-Induced Impairment of Cardiac Contractile Performance Can Be Reversed by Explantation and May Not Preclude the Use of Hearts for Transplantation, 1213

Changes in Intracellular Free Calcium Concentration During Long Exposures to Simulated Ischemia in Isolated Mammalian Ventricular Muscle, 58

Decreased Myofilament Responsiveness in Myocardial Stunning Follows Transient Calcium Overload During Ischemia and Reperfusion, 1334

Dependence of Hypoxic Cellular Calcium Loading on Na⁺-Ca²⁺ Exchange, 547

Effect of Ischemia and Reperfusion on Sarcoplasmic Reticulum Calcium Uptake, 1123

Extracellular and Intracellular Actions of Adenosine and Related Compounds in the Reperfused Rat Intestine, 720

Hydrogen Peroxide-Induced Cardiovascular Reflexes: Role of Hydroxyl Radicals, 295

Proto-oncogene Expression in Porcine Myocardium Subjected to Ischemia and Reperfusion, 1351

Quantification of Hydroxyl Radical and Its Lack of Relevance to Myocardial Injury During Early Reperfusion After Graded Ischemia in Rat Hearts, 96

Superoxide Dismutase Enhances Ischemia-Induced Reactive Hyperemic Flow and Adenosine Release in Dogs: A Role of 5'-Nucleotidase Activity, 558

Verapamil Diminishes Action Potential Changes During Metabolic Inhibition by Blocking ATP-Regulated Potassium Currents, 87

Ischemic arrhythmias

Positive Chronotropic Responses Induced by α_1 -Adrenergic Stimulation of Normal and "Ischemic" Purkinje Fibers Have Different Receptor-Effector Coupling Mechanisms, 526

Ischemic cardiomyopathy

Differences in Cardiac Calcium Release Channel (Ryanodine Receptor) Expression in Myocardium From Patients With End-Stage Heart Failure Caused by Ischemic Versus Dilated Cardiomyopathy, 18

Isolated canine hearts

Basal Metabolism Adds a Significant Offset to Unloaded Myocardial Oxygen Consumption per Minute, 414

Isolated guinea pig heart

Nitric Oxide Is a Mediator of Hypoxic Coronary Vasodilatation: Relation to Adenosine and Cyclooxygenase-Derived Metabolites, 992

Isolated hearts

Effect of Ischemia and Reperfusion on Sarcoplasmic Reticulum Calcium Uptake, 1123

K**K⁺ channels**

Effects of External pH on Ionic Currents in Smooth Muscle Cells From the Basilar Artery of the Guinea Pig, 201

Functional Expression of an Inactivating Potassium Channel Cloned From Human Heart, 732

Ionic Currents in Single Smooth Muscle Cells of the Canine Renal Artery, 745

K⁺ channel openers

Activation of ATP-Sensitive K⁺ Channels by Cromakalim: Effects on Cellular K⁺ Loss and Cardiac Function in Ischemic and Reperfused Mammalian Ventricle, 1324

Effects on the Rabbit Coronary Artery of LP-805, a New Type of Releaser of Endothelium-Derived Relaxing Factor and a K⁺ Channel Opener, 859

Kinetics

Comprehensive Model of Transport and Metabolism of Adenosine and S-Adenosylhomocysteine in the Guinea Pig Heart, 590

Kinin receptors

Potential of Endothelium-Dependent Relaxations to Bradykinin by Angiotensin I Converting Enzyme Inhibitors in Canine Coronary Artery Involves Both Endothelium-Derived Relaxing and Hyperpolarizing Factors, 137

Kinase II

Potential of Endothelium-Dependent Relaxations to Bradykinin by Angiotensin I Converting Enzyme Inhibitors in Canine Coronary Artery Involves Both Endothelium-Derived Relaxing and Hyperpolarizing Factors, 137

L**L-type Ca²⁺ channels**

Developmental Changes in Long-Opening Behavior of L-Type Ca²⁺ Channels in Embryonic Chick Heart Cells, 376

Large deformation

Arterial Mechanics in Spontaneously Hypertensive Rats: Mechanical Properties, Hydraulic Conductivity, and Two-Phase (Solid/Fluid) Finite Element Models, 145

Left anterior descending coronary artery

Effect of Brief Myocardial Ischemia on Sympathetic Coronary Vasoconstriction, 960

Left circumflex coronary artery

Effect of Brief Myocardial Ischemia on Sympathetic Coronary Vasoconstriction, 960

Left ventricular afterload

Time Course of Left Ventricular Function After Cardiac Denervation in Conscious Dogs, 365

Left ventricular function

Time Course of Left Ventricular Function After Cardiac Denervation in Conscious Dogs, 365

Left ventricular hypertrophy

Mechanisms of Subendocardial Dysfunction in Response to Exercise in Dogs With Severe Left Ventricular Hypertrophy, 423

Left ventricular loading in aortic stenosis

Ejection Load Changes in Aortic Stenosis: Observations Made After Balloon Aortic Valvuloplasty, 1174

Left ventricular myocardium

Expression of A-, B-, and C-Type Natriuretic Peptide Genes in Failing and Developing Human Ventricles: Correlation With Expression of the Ca²⁺-ATPase Gene, 9

Left ventricular systolic dynamics

Ejection Load Changes in Aortic Stenosis: Observations Made After Balloon Aortic Valvuloplasty, 1174

Linkage analysis

Exclusion of Cardiac Myosin Heavy Chain and Actin Gene Involvement in Hypertrophic Cardiomyopathy of Several French Families, 3

Lipid accumulation

Three Types of Naturally Occurring Modified Lipoproteins Induce Intracellular Lipid Accumulation Due to Lipoprotein Aggregation, 218

Lipid aggregation

Three Types of Naturally Occurring Modified Lipoproteins Induce Intracellular Lipid Accumulation Due to Lipoprotein Aggregation, 218

Lipoprotein

Suppression of Endothelin-1 Secretion by Lysophosphatidylcholine in Oxidized Low Density Lipoprotein in Cultured Vascular Endothelial Cells, 614

Lipoprotein aggregation

Three Types of Naturally Occurring Modified Lipoproteins Induce Intracellular Lipid Accumulation Due to Lipoprotein Aggregation, 218

Losartan

Characterization of Angiotensin II Receptor Subtypes in Rat Heart, 1482

Low density lipoproteins

Measurement of Endothelial Permeability to ^{125}I -Low Density Lipoproteins in Rabbit Arteries by Use of En Face Preparations, 883

Luciferase

Gene Transfer Into Coronary Arteries of Intact Animals With a Percutaneous Balloon Catheter, 27

Luciferase gene

Regulation of Na,K-ATPase Gene Expression by Thyroid Hormone in Rat Cardiocytes, 1457

Lung growth

Maturation of Interdependence Between Extra-alveolar Arteries and Lung Parenchyma in Piglets, 701

Lung micromechanics

Maturation of Interdependence Between Extra-alveolar Arteries and Lung Parenchyma in Piglets, 701

Lysophosphatidylcholine

Lysophosphatidylcholine Inhibits Bradykinin-Induced Phosphoinositide Hydrolysis and Calcium Transients in Cultured Bovine Aortic Endothelial Cells, 1410

Lysophosphatidylcholine Inhibits Surface Receptor-Mediated Intracellular Signals in Endothelial Cells by a Pathway Involving Protein Kinase C Activation, 1422

M**Magnetization transfer**

Myocardial Energetics During Ventricular Fibrillation Investigated by Magnetization Transfer Nuclear Magnetic Resonance Spectroscopy, 1111

Membrane attack complex

Effects of Complement Activation in the Isolated Heart: Role of the Terminal Complement Components, 303

Membrane depolarization

Impaired Myogenic Responsiveness of Renal Microvessels in Dahl Salt-Sensitive Rats, 471

Metabolism

Dissociation Between Contractile Function and Oxidative Metabolism in Posts ischemic Myocardium: Attenuation by Ruthenium Red Administered During Reperfusion, 567

Methionine sulfoximine

Restoration of Cerebrovascular CO_2 Responsivity by Glutamine Synthesis Inhibition in Hyperammonemic Rats, 1220

Microcirculation

Effect of Hypertension and Hypertrophy on Coronary Microvascular Pressure, 120

Extracellular and Intracellular Actions of Adenosine and Related Compounds in the Reperfused Rat Intestine, 720

Interaction Between Microvascular α_1 - and α_2 -Adrenoceptors and Endothelium-Derived Relaxing Factor, 188

Microsatellites

Exclusion of Cardiac Myosin Heavy Chain and Actin Gene Involvement in Hypertrophic Cardiomyopathy of Several French Families, 3

Microvascular endothelium

Leukotriene B_4 Mediates Shear Rate-Dependent Leukocyte Adhesion in Mesenteric Venules, 906

Microvascular pressure

Effect of Hypertension and Hypertrophy on Coronary Microvascular Pressure, 120

Mitochondria

Interferon- γ and Tumor Necrosis Factor Synergize to Induce Nitric Oxide Production and Inhibit Mitochondrial Respiration in Vascular Smooth Muscle Cells, 1268

Mitochondrial $[\text{Ca}^{2+}]$

Relation of Mitochondrial and Cytosolic Free Calcium to Cardiac Myocyte Recovery After Exposure to Anoxia, 605

Mitotic division

Ventricular Loading Is Coupled With DNA Synthesis in Adult Cardiac Myocytes After Acute and Chronic Myocardial Infarction in Rats, 1379

Mode-2 behavior

Developmental Changes in Long-Opening Behavior of L-Type Ca^{2+} Channels in Embryonic Chick Heart Cells, 376

Moderate ischemia

Partial Coronary Stenosis Is Sufficient and Complete Reperfusion Is Mandatory for Preconditioning the Canine Heart, 1165

Modified lipoproteins

Three Types of Naturally Occurring Modified Lipoproteins Induce Intracellular Lipid Accumulation Due to Lipoprotein Aggregation, 218

Molecular biology

Effects of Norepinephrine on the Oxidative Pentose Phosphate Pathway in the Rat Heart, 451

Molecular cloning

Differential Effects of Elevating $[\text{K}]_o$ on Three Transient Outward Potassium Channels: Dependence on Channel Inactivation Mechanisms, 657

Monoclonal antibodies

Immunohistochemical and Biochemical Evidence for a Cardiovascular Mineralocorticoid Receptor, 503

 N^G -Monomethyl L-arginine

Interaction Between Microvascular α_1 - and α_2 -Adrenoceptors and Endothelium-Derived Relaxing Factor, 188

Mouse

Mouse Phospholamban Gene Expression During Development In Vivo and In Vitro, 1021

mRNA

Cellular Mechanisms for Synthesis and Secretion of Atrial Natriuretic Peptide and Brain Natriuretic Peptide in Cultured Rat Atrial Cells, 1039

Differences in Cardiac Calcium Release Channel (Ryanodine Receptor) Expression in Myocardium From Patients With End-Stage Heart Failure Caused by Ischemic Versus Dilated Cardiomyopathy, 18

Transcriptional Regulation of Left Ventricular β -Adrenergic Receptors During Chronic Hypoxia, 1465

Multiple wavelet hypothesis

Cholinergically Mediated Tachyarrhythmias Induced by a Single Extrastimulus in the Isolated Canine Right Atrium, 1254

Muscarinic K^+ channels

Membrane-Bound Nucleoside Diphosphate Kinase Activity in Atrial Cells of Frog, Guinea Pig, and Human, 808

Muscle

Effects of Cycling and Rigor Crossbridges on the Conformation of Cardiac Troponin C, 984

Muscle regeneration

Role of Epicardial Mesothelial Cells in the Modification of Phenotype and Function of Adult Rat Ventricular Myocytes in Primary Coculture, 40

Myelin basic protein/microtubule-associated protein 2 kinase

Angiotensin II Stimulates Two Myelin Basic Protein/Microtubule-Associated Protein 2 Kinases in Cultured Vascular Smooth Muscle Cells, 620

Myocardial blood flow

Mechanisms of Subendocardial Dysfunction in Response to Exercise in Dogs With Severe Left Ventricular Hypertrophy, 423

Myocardial contractility

Adenosine A_1 Receptor Activation Attenuates Cardiac Injury Produced by Hydrogen Peroxide, 1101

Myocardial contraction

Different Effects of α - and β -Adrenergic Stimulation on Cytosolic pH and Myofilament Responsiveness to Ca^{2+} in Cardiac Myocytes, 870

Myocardial energetics

Effect of Reduced Aortic Compliance on Cardiac Efficiency and Contractile Function of In Situ Canine Left Ventricle, 490

Myocardial infarction

Body Surface Mapping of Ectopic Left Ventricular Activation: QRS Spectrum in Patients With Prior Myocardial Infarction, 1361

Captopril Enhances Intracellular Calcium Handling and β -Adrenergic Responsiveness of Myocardium From Rats With Postinfarction Failure, 797

Effects of Complement Activation in the Isolated Heart: Role of the Terminal Complement Components, 303

Effects of Fibrous Cap Thickness on Peak Circumferential Stress in Model Atherosclerotic Vessels, 850

Kinetics of C5a Release in Cardiac Lymph of Dogs Experiencing Coronary Artery Ischemia-Reperfusion Injury, 1518

Myocardial ischemia

Activation of ATP-Sensitive K^+ Channels by Cromakalim: Effects on Cellular K^+ Loss and Cardiac Function in Ischemic and Reperfused Mammalian Ventricle, 1324

Changes in Extracellular and Intracellular pH in Ischemic Rabbit Papillary Muscle, 460

Correlation Between $[5\text{-}^3\text{H}]\text{Glucose}$ and $[\text{U-}^{14}\text{C}]\text{Deoxyglucose}$ as Markers of Glycolysis in Reperfused Myocardium, 689

Effect of Brief Myocardial Ischemia on Sympathetic Coronary Vasoconstriction, 960

Effects of Complement Activation in the Isolated Heart: Role of the Terminal Complement Components, 303

Sympathetic Stimulation and Norepinephrine Infusion Modulate Extracellular Potassium Concentration During Acute Myocardial Ischemia, 1078

Myocardial protection

Brain Death-Induced Impairment of Cardiac Contractile Performance Can Be Reversed by Explantation and May Not Preclude the Use of Hearts for Transplantation, 1213

Myocardial rupture

Biomechanical Properties of Reperfused Transmural Myocardial Infarcts in Rabbits During the First Week After Infarction: Implications for Left Ventricular Rupture, 401

Myocardial stunning

Effect of Brief Myocardial Ischemia on Sympathetic Coronary Vasoconstriction, 960

Myocardial tearing

Biomechanical Properties of Reperfused Transmural Myocardial Infarcts in Rabbits During the First Week After Infarction: Implications for Left Ventricular Rupture, 401

Myocardium

Age-Related Changes in Fibronectin Expression in Spontaneously Hypertensive, Wistar-Kyoto, and Wistar Rat Hearts, 1341

Comprehensive Model of Transport and Metabolism of Adenosine and *S*-Adenosylhomocysteine in the Guinea Pig Heart, 590

Decreased Collagen Gene Expression and Absence of Fibrosis in Thyroid Hormone-Induced Myocardial Hypertrophy: Response of Cardiac Fibroblasts to Thyroid Hormone In Vitro, 831

Superoxide Dismutase Enhances Ischemia-Induced Reactive Hyperemic Flow and Adenosine Release in Dogs: A Role of $5'$ -Nucleotidase Activity, 558

Myocyte function

Relation Between Ventricular and Myocyte Function With Tachycardia-Induced Cardiomyopathy, 174

Myocyte loss

Myocardial Mechanical, Biochemical, and Structural Alterations Induced by Chronic Ethanol Ingestion in Rats, 346

Myocytes

Relation of Mitochondrial and Cytosolic Free Calcium to Cardiac Myocyte Recovery After Exposure to Anoxia, 605

Myofibrillar integrity

Accumulation and Assembly of Myosin in Hypertrophic Cardiomyopathy With the 403 Arg to Gln β -Myosin Heavy Chain Mutation, 1404

Myofilament Ca^{2+} sensitivity

Endothelin Increases Myofilament Ca^{2+} Sensitivity in α -Toxin-Permeabilized Rabbit Mesenteric Artery, 951

Myosin heavy chain

Platelet-Derived Growth Factor-BB-Induced Suppression of Smooth Muscle Cell Differentiation, 1518

Myosin heavy chain isoforms

Persisting Zones of Slow Impulse Conduction in Developing Chicken Hearts, 240

Myosin light chain phosphorylation

Endothelin Increases Myofilament Ca^{2+} Sensitivity in α -Toxin-Permeabilized Rabbit Mesenteric Artery, 951

N**Na-Ca exchange**

ATP Dependence of Calcium Uptake by the Na-Ca Exchanger of Adult Heart Cells, 210

 $\text{Na}^+\text{-Ca}^{2+}$ exchange

Dependence of Hypoxic Cellular Calcium Loading on $\text{Na}^+\text{-Ca}^{2+}$ Exchange, 547

 $\text{Na}^+\text{-H}^+$ exchange

Endothelin Reverses the Effects of Acidosis on the Intracellular Ca^{2+} Transient and Contractility in Ferret Myocardium, 631
 HCO_3^- -Dependent Intracellular pH Regulation in the Premature Myocardium, 1314

 Na^+ transport

Effects of Serotonin on Intracellular pH and Contraction in Vascular Smooth Muscle, 1294

Na,K-ATPase

Brain Ouabain-Like Activity and the Sympathoexcitatory and Pressor Effects of Central Sodium in Rats, 1059

Regulation of Na,K-ATPase Gene Expression by Thyroid Hormone in Rat Cardiocytes, 1457

Natriuresis

Effect of Inhibition of Endopeptidase 24.11 on Responses to Angiotensin II in Human Volunteers, 1501

Natriuretic peptide

Phenotype-Related Alteration in Expression of Natriuretic Peptide Receptors in Aortic Smooth Muscle Cells, 34

Natriuretic peptide receptors

Phenotype-Related Alteration in Expression of Natriuretic Peptide Receptors in Aortic Smooth Muscle Cells, 34

Neonatal

Age-Related Appearance of Outward Currents May Contribute to Developmental Differences in Ventricular Repolarization, 1390

Neuronal norepinephrine reuptake

Mechanism of Hind Limb Vasoconstriction Due to Cyclosporin A in the Dog, 1159

Neuropeptide Y

Sequence of Excitation as a Factor in Sympathetic-Parasympathetic Interactions in the Heart, 898

Neutropenia

Role of Neutrophil Adherence Receptors (CD 18) in Lung Permeability Following Lower Torso Ischemia, 82

Neutrophil

Extracellular and Intracellular Actions of Adenosine and Related Compounds in the Reperfused Rat Intestine, 720

Kinetics of C5a Release in Cardiac Lymph of Dogs Experiencing Coronary Artery Ischemia-Reperfusion Injury, 1518

Thrombin Receptor 14-Amino Acid Peptide Mediates Endothelial Hyperadhesivity and Neutrophil Adhesion by P-Selectin-Dependent Mechanism, 1015

Neutrophil sequestration

Role of Neutrophil Adherence Receptors (CD 18) in Lung Permeability Following Lower Torso Ischemia, 82

Newborn

Indirect Relation Between Rises in Oxygen Consumption and Left Ventricular Output at Birth in Lambs, 443

Newborn myocytes

HCO_3^- -Dependent Intracellular pH Regulation in the Premature Myocardium, 1314

Nitric oxide

Balloon Injury and Interleukin-1 β Induce Nitric Oxide Synthase Activity in Rat Carotid Arteries, 331

Interferon- γ and Tumor Necrosis Factor Synergize to Induce Nitric Oxide Production and Inhibit Mitochondrial Respiration in Vascular Smooth Muscle Cells, 1268

Nitric Oxide Is a Mediator of Hypoxic Coronary Vasodilatation: Relation to Adenosine and Cyclooxygenase-Derived Metabolites, 992

Nitric Oxide Synthase in Cardiac Nerve Fibers and Neurons of Rat and Guinea Pig Heart, 1526

Platelet-Derived Growth Factor Suppresses and Fibroblast Growth Factor Enhances Cytokine-Induced Production of Nitric Oxide by Cultured Smooth Muscle Cells: Effects on Cell Proliferation, 1088

Potential of Endothelium-Dependent Relaxations to Bradykinin by Angiotensin I Converting Enzyme Inhibitors in Canine Coronary Artery Involves Both Endothelium-Derived Relaxing and Hyperpolarizing Factors, 137

Prostaglandin D₂ Relaxes Bovine Coronary Arteries by Endothelium-Dependent Nitric Oxide-Mediated cGMP Formation, 1305

N^G-Nitro-L-arginine

Potential of Endothelium-Dependent Relaxations to Bradykinin by Angiotensin I Converting Enzyme Inhibitors in Canine Coronary Artery Involves Both Endothelium-Derived Relaxing and Hyperpolarizing Factors, 137

Nonadrenergic noncholinergic depressor response

Endogenous Calcitonin Gene-Related Peptide Mediates Nonadrenergic Noncholinergic Depressor Response to Spinal Cord Stimulation in the Pithed Rat, 357

Norepinephrine

Sequence of Excitation as a Factor in Sympathetic-Parasympathetic Interactions in the Heart, 898

Sympathetic Stimulation and Norepinephrine Infusion Modulate Extracellular Potassium Concentration During Acute Myocardial Ischemia, 1078

Nuclear fibroblast growth factors

Acidic and Basic Fibroblast Growth Factors in Adult Rat Heart Myocytes: Localization, Regulation in Culture, and Effects on DNA Synthesis, 251

Nuclear hyperplasia

Ventricular Loading Is Coupled With DNA Synthesis in Adult Cardiac Myocytes After Acute and Chronic Myocardial Infarction in Rats, 1379

Nuclear proto-oncogenes

Proto-oncogene Expression in Porcine Myocardium Subjected to Ischemia and Reperfusion, 1351

Nucleoside diphosphate kinase

Membrane-Bound Nucleoside Diphosphate Kinase Activity in Atrial Cells of Frog, Guinea Pig, and Human, 808

O

Osmolarity

Restoration of Cerebrovascular CO₂ Responsivity by Glutamine Synthesis Inhibition in Hyperammonemic Rats, 1220

Ouabain

Endothelial Modulation of the Ouabain-Induced Contraction in Human Placental Vessels, 943

Brain Ouabain-Like Activity and the Sympathoexcitatory and Pressor Effects of Central Sodium in Rats, 1059

Outflow tract

Persisting Zones of Slow Impulse Conduction in Developing Chicken Hearts, 240

Oxidative stress

Adenosine A₁ Receptor Activation Attenuates Cardiac Injury Produced by Hydrogen Peroxide, 1101

Oxygen

Isolated Pulmonary Resistance Vessels From Fetal Lambs: Contractile Behavior and Responses to Indomethacin and Endothelin-1, 320

Role of Endothelium-Derived Prostaglandins in Hypoxia-Elicited Arteriolar Dilatation in Rat Skeletal Muscle, 790

Oxygen consumption

Indirect Relation Between Rises in Oxygen Consumption and Left Ventricular Output at Birth in Lambs, 443

Oxygen-derived free radicals

Superoxide Dismutase Enhances Ischemia-Induced Reactive Hyperemic Flow and Adenosine Release in Dogs: A Role of 5'-Nucleotidase Activity, 558

P

P-selectin

Thrombin Receptor 14-Amino Acid Peptide Mediates Endothelial Hyperadhesivity and Neutrophil Adhesion by P-Selectin-Dependent Mechanism, 1015

Pace mapping

Body Surface Mapping of Ectopic Left Ventricular Activation: QRS Spectrum in Patients With Prior Myocardial Infarction, 1361

Papillary muscle

Myocardial Mechanical, Biochemical, and Structural Alterations Induced by Chronic Ethanol Ingestion in Rats, 346

Paracellular pathway

Permeability of Rat Atrial Endocardium, Epicardium, and Myocardium to Large Molecules: Stretch-Dependent Effects, 159

Patch clamp

α_1 -Adrenoceptor Stimulation Enhances the Delayed Rectifier K⁺ Current of Guinea Pig Ventricular Cells Through the Activation of Protein Kinase C, 1441

Activation of ATP-Sensitive K⁺ Channels by Cromakalim: Effects on Cellular K⁺ Loss and Cardiac Function in Ischemic and Reperfused Mammalian Ventricle, 1324

Developmental Changes in Long-Opening Behavior of L-Type Ca²⁺ Channels in Embryonic Chick Heart Cells, 376

Verapamil Diminishes Action Potential Changes During Metabolic Inhibition by Blocking ATP-Regulated Potassium Currents, 87

Patch-clamp single-channel conductance

Inward Sodium Current at Resting Potentials in Single Cardiac Myocytes Induced by the Ischemic Metabolite Lysophosphatidylcholine, 1231

PD123177

Characterization of Angiotensin II Receptor Subtypes in Rat Heart, 1482

Percutaneous transluminal coronary angioplasty

In Vitro Effects of a Recombinant Toxin Targeted to the Fibroblast Growth Factor Receptor on Rat Vascular Smooth Muscle and Endothelial Cells, 640

Peripheral vasoconstriction

Mechanism of Hind Limb Vasoconstriction Due to Cyclosporin A in the Dog, 1159

Permeability

Measurement of Endothelial Permeability to ¹²⁵I-Low Density Lipoproteins in Rabbit Arteries by Use of En Face Preparations, 883

pH

Effects of External pH on Ionic Currents in Smooth Muscle Cells From the Basilar Artery of the Guinea Pig, 201

Phenotypic modulation

Phenotype-Related Alteration in Expression of Natriuretic Peptide Receptors in Aortic Smooth Muscle Cells, 34

Phenylephrine

α_1 -Adrenoceptor Stimulation Enhances the Delayed Rectifier K⁺ Current of Guinea Pig Ventricular Cells Through the Activation of Protein Kinase C, 1441

Phorbol ester

Endothelin-1 Enhances Calcium Entry Through T-Type Calcium Channels in Cultured Neonatal Rat Ventricular Myocytes, 1242

6-Phosphogluconate dehydrogenase

Effects of Norepinephrine on the Oxidative Pentose Phosphate Pathway in the Rat Heart, 451

Phosphoinositide hydrolysis

Lysophosphatidylcholine Inhibits Bradykinin-Induced Phosphoinositide Hydrolysis and Calcium Transients in Cultured Bovine Aortic Endothelial Cells, 1410

Phospholamban

Mouse Phospholamban Gene Expression During Development In Vivo and In Vitro, 1021

Phospholipase D

Depression of Cardiac Sarcolemmal Phospholipase D Activity by Oxidant-Induced Thiol Modification, 970

Phosphorus nuclear magnetic resonance

Myocardial Energetics During Ventricular Fibrillation Investigated by Magnetization Transfer Nuclear Magnetic Resonance Spectroscopy, 1111

Phosphorylation

Cardiac Sarcoplasmic Reticulum Chloride Channels Regulated by Protein Kinase A, 585

Pig Heart

Proto-oncogene Expression in Porcine Myocardium Subjected to Ischemia and Reperfusion, 1351

Nitric Oxide Is a Mediator of Hypoxic Coronary Vasodilatation: Relation to Adenosine and Cyclooxygenase-Derived Metabolites, 992

Pithed rat

Endogenous Calcitonin Gene-Related Peptide Mediates Non-adrenergic Noncholinergic Depressor Response to Spinal Cord Stimulation in the Pithed Rat, 357

Plasminogen

Cultured Rat Aortic Vascular Smooth Muscle Cells Digest Naturally Produced Extracellular Matrix: Involvement of Plasminogen-Dependent and Plasminogen-Independent Pathways, 385

Platelet activating factor

Leukotriene B₄ Mediates Shear Rate-Dependent Leukocyte Adhesion in Mesenteric Venules, 906

Platelet aggregation

Endothelium-Derived Relaxing Factor Modulates Platelet Aggregation in an In Vivo Model of Recurrent Platelet Activation, 1447

Platelet-derived growth factor

Platelet-Derived Growth Factor Isoforms Decrease Insulin-like Growth Factor I Gene Expression in Rat Vascular Smooth Muscle Cells and Selectively Stimulate the Biosynthesis of Insulin-like Growth Factor Binding Protein 4, 646

Rat Carotid Neointimal Smooth Muscle Cells Reexpress a Developmentally Regulated mRNA Phenotype During Repair of Arterial Injury, 759

Regulation of Platelet-Derived Growth Factor Ligand and Receptor Gene Expression by α -Thrombin in Vascular Smooth Muscle Cells, 1285

Platelets

Cod Liver Oil Alters Platelet-Arterial Wall Response to Injury in Pigs, 769

Polarized light microscopy

Accumulation and Assembly of Myosin in Hypertrophic Cardiomyopathy With the 403 Arg to Gln β -Myosin Heavy Chain Mutation, 1404

Postmitotic cells

Acidic and Basic Fibroblast Growth Factors in Adult Rat Heart Myocytes: Localization, Regulation in Culture, and Effects on DNA Synthesis, 251

Potassium

Sympathetic Stimulation and Norepinephrine Infusion Modulate Extracellular Potassium Concentration During Acute Myocardial Ischemia, 1078

Potassium conductance

Positive Chronotropic Responses Induced by α_1 -Adrenergic Stimulation of Normal and "Ischemic" Purkinje Fibers Have Different Receptor-Effector Coupling Mechanisms, 526

Preconditioning

Partial Coronary Stenosis Is Sufficient and Complete Reperfusion Is Mandatory for Preconditioning the Canine Heart, 1165

Pressure natriuresis

Relation Between Vasa Recta Blood Flow and Renal Interstitial Hydrostatic Pressure During Pressure Natriuresis, 1153

Pressure overload

Coronary Blood Flow After the Regression of Pressure-Overload Left Ventricular Hypertrophy, 1472

Pressure-volume area

Basal Metabolism Adds a Significant Offset to Unloaded Myocardial Oxygen Consumption per Minute, 414

Pressure-volume relations

Effect of Reduced Aortic Compliance on Cardiac Efficiency and Contractile Function of In Situ Canine Left Ventricle, 490

Propagation

Effects of 2,4-Dinitrophenol or Low [ATP]_i on Cell Excitability and Action Potential Propagation in Guinea Pig Ventricular Myocytes, 821

Prostaglandin D₂

Prostaglandin D₂ Relaxes Bovine Coronary Arteries by Endothelium-Dependent Nitric Oxide-Mediated cGMP Formation, 1305

Prostaglandins

Isolated Pulmonary Resistance Vessels From Fetal Lambs: Contractile Behavior and Responses to Indomethacin and Endothelin-1, 320

Role of Endothelium-Derived Prostaglandins in Hypoxia-Elicited Arteriolar Dilation in Rat Skeletal Muscle, 790

Protein degradation

Physiological Hyperinsulinemia Inhibits Myocardial Protein Degradation In Vivo in the Canine Heart, 393

Protein kinase A

Angiotensin II Stimulates Two Myelin Basic Protein/Microtubule-Associated Protein 2 Kinases in Cultured Vascular Smooth Muscle Cells, 620

Cardiac Sarcoplasmic Reticulum Chloride Channels Regulated by Protein Kinase A, 585

Protein kinase C

α_1 -Adrenoceptor Stimulation Enhances the Delayed Rectifier K⁺ Current of Guinea Pig Ventricular Cells Through the Activation of Protein Kinase C, 1441

Cellular Mechanisms for Synthesis and Secretion of Atrial Natriuretic Peptide and Brain Natriuretic Peptide in Cultured Rat Atrial Cells, 1039

Endothelin-1 Enhances Calcium Entry Through T-Type Calcium Channels in Cultured Neonatal Rat Ventricular Myocytes, 1242

Endothelin Increases Myofilament Ca²⁺ Sensitivity in α -Toxin-Permeabilized Rabbit Mesenteric Artery, 951

Lysophosphatidylcholine Inhibits Surface Receptor-Mediated Intracellular Signals in Endothelial Cells by a Pathway Involving Protein Kinase C Activation, 1422

Proteolysis

Cultured Rat Aortic Vascular Smooth Muscle Cells Digest Naturally Produced Extracellular Matrix: Involvement of Plasminogen-Dependent and Plasminogen-Independent Pathways, 385

Protons

Reperfusion-Induced Arrhythmias: A Role for Washout of Extracellular Protons? 1429

Pseudomonas exotoxin

In Vitro Effects of a Recombinant Toxin Targeted to the Fibroblast Growth Factor Receptor on Rat Vascular Smooth Muscle and Endothelial Cells, 640

Pseudostrain energy function

Arterial Mechanics in Spontaneously Hypertensive Rats: Mechanical Properties, Hydraulic Conductivity, and Two-Phase (Solid/Fluid) Finite Element Models, 145

Pulmonary circulation

Maturation of Interdependence Between Extra-alveolar Arteries and Lung Parenchyma in Piglets, 701

Pulmonary vascular resistance

Isolated Pulmonary Resistance Vessels From Fetal Lambs: Contractile Behavior and Responses to Indomethacin and Endothelin-1, 320

Purines

Comprehensive Model of Transport and Metabolism of Adenosine and S-Adenosylhomocysteine in the Guinea Pig Heart, 590

Q**QRS morphology**

Body Surface Mapping of Ectopic Left Ventricular Activation: QRS Spectrum in Patients With Prior Myocardial Infarction, 1361

QX-222

Inward Sodium Current at Resting Potentials in Single Cardiac Myocytes Induced by the Ischemic Metabolite Lysophosphatidylcholine, 1231

R**Rabbit ventricular cells**

Inward Sodium Current at Resting Potentials in Single Cardiac Myocytes Induced by the Ischemic Metabolite Lysophosphatidylcholine, 1231

Rabbits

Immunohistochemical and Biochemical Evidence for a Cardiovascular Mineralocorticoid Receptor, 503

Radioactive microspheres

Indirect Relation Between Rises in Oxygen Consumption and Left Ventricular Output at Birth in Lambs, 443

Radioimmunoassay

Suppression of Endothelin-1 Secretion by Lysophosphatidylcholine in Oxidized Low Density Lipoprotein in Cultured Vascular Endothelial Cells, 614

Rat aortic smooth muscle

Platelet-Derived Growth Factor-BB-Induced Suppression of Smooth Muscle Cell Differentiation, 1525

Rat carotid artery

Balloon Injury and Interleukin-1 β Induce Nitric Oxide Synthase Activity in Rat Carotid Arteries, 331

Rat heart function

Effects of Norepinephrine on the Oxidative Pentose Phosphate Pathway in the Rat Heart, 451

Rat heart sarcolemmal membranes

Depression of Cardiac Sarcolemmal Phospholipase D Activity by Oxidant-Induced Thiol Modification, 970

Rat hearts

Brain Death-Induced Impairment of Cardiac Contractile Performance Can Be Reversed by Explantation and May Not Preclude the Use of Hearts for Transplantation, 1213

Dissociation Between Contractile Function and Oxidative Metabolism in Posts ischemic Myocardium: Attenuation by Ruthenium Red Administered During Reperfusion, 567

Rat ventricular cells

Inward Sodium Current at Resting Potentials in Single Cardiac Myocytes Induced by the Ischemic Metabolite Lysophosphatidylcholine, 1231

Rats

Albumin Transport Characteristics of Rat Aorta in Early Phase of Hypertension, 932

Effect of Caffeine on Expression of Cardiac Myosin Heavy Chain Gene in Adult Hypothyroid and Fetal Rats, 1031

Reperfusion-Induced Arrhythmias: A Role for Washout of Extracellular Protons? 1429

Reentrant tachyarrhythmias

Cholinergically Mediated Tachyarrhythmias Induced by a Single Extrastimulus in the Isolated Canine Right Atrium, 1254

Reentry

Reflection After Delayed Excitation in a Computer Model of a Single Fiber, 260

Reflection

Reflection After Delayed Excitation in a Computer Model of a Single Fiber, 260

Reflow

Correlation Between [5-³H]Glucose and [U-¹⁴C]Deoxyglucose as Markers of Glycolysis in Reperfused Myocardium, 689

Refractory period

Mechanism of Flecainide's Antiarrhythmic Action in Experimental Atrial Fibrillation, 271

Regional ischemia

Reperfusion-Induced Arrhythmias: A Role for Washout of Extracellular Protons? 1429

Regulation

Identification and Characterization of Developmentally Regulated Genes in Vascular Smooth Muscle Cells, 711

Renal artery

Ionic Currents in Single Smooth Muscle Cells of the Canine Renal Artery, 745

Renal hypertension

Effect of Hypertension and Hypertrophy on Coronary Microvascular Pressure, 120

Renal interstitial hydrostatic pressure

Relation Between Vasa Recta Blood Flow and Renal Interstitial Hydrostatic Pressure During Pressure Natriuresis, 1153

Renal sympathetic nerve activity

Brain Ouabain-Like Activity and the Sympathoexcitatory and Pressor Effects of Central Sodium in Rats, 1059

Reoxygenation

Relation of Mitochondrial and Cytosolic Free Calcium to Cardiac Myocyte Recovery After Exposure to Anoxia, 605

Subcellular Electrolyte Alterations During Progressive Hypoxia and Following Reoxygenation in Isolated Neonatal Rat Ventricular Myocytes, 106

Reperfusion

Biomechanical Properties of Reperfused Transmural Myocardial Infarcts in Rabbits During the First Week After Infarction: Implications for Left Ventricular Rupture, 401

Brain Death-Induced Impairment of Cardiac Contractile Performance Can Be Reversed by Explantation and May Not Preclude the Use of Hearts for Transplantation, 1213

Changes in Intracellular Free Calcium Concentration During Long Exposures to Simulated Ischemia in Isolated Mammalian Ventricular Muscle, 58

Decreased Myofilament Responsiveness in Myocardial Stunning Follows Transient Calcium Overload During Ischemia and Reperfusion, 1334

Dissociation Between Contractile Function and Oxidative Metabolism in Posts ischemic Myocardium: Attenuation by Ruthenium Red Administered During Reperfusion, 567

Effect of Ischemia and Reperfusion on Sarcoplasmic Reticulum Calcium Uptake, 1123

Gap Junctional Conductance in Ventricular Myocyte Pairs Isolated From Posts ischemic Rabbit Myocardium, 127

Hydrogen Peroxide-Induced Cardiovascular Reflexes: Role of Hydroxyl Radicals, 295

Partial Coronary Stenosis Is Sufficient and Complete Reperfusion Is Mandatory for Preconditioning the Canine Heart, 1165

Quantification of Hydroxyl Radical and Its Lack of Relevance to Myocardial Injury During Early Reperfusion After Graded Ischemia in Rat Hearts, 96

Superoxide Dismutase Enhances Ischemia-Induced Reactive Hyperemic Flow and Adenosine Release in Dogs: A Role of 5'-Nucleotidase Activity, 558

Reperfusion-induced arrhythmias

Reperfusion-Induced Arrhythmias: A Role for Washout of Extracellular Protons? 1429

Reperfusion injury

Effects of Complement Activation in the Isolated Heart: Role of the Terminal Complement Components, 303

Kinetics of C5a Release in Lymph of Dogs Experiencing Coronary Artery Ischemia-Reperfusion Injury, 1518

Restenosis

In Vitro Effects of a Recombinant Toxin Targeted to the Fibroblast Growth Factor Receptor on Rat Vascular Smooth Muscle and Endothelial Cells, 640

Retrovirus

Optimization of Retroviral Vector-Mediated Gene Transfer Into Endothelial Cells In Vitro, 1508

Ruthenium red

Effect of Perfusate [Ca²⁺] on Cardiac Sarcoplasmic Reticulum Ca²⁺ Release Channel in Isolated Rat Hearts, 1049

Ryanodine

Effect of Perfusate [Ca²⁺] on Cardiac Sarcoplasmic Reticulum Ca²⁺ Release Channel in Isolated Rat Hearts, 1049

Reperfusion Arrhythmias in Isolated Perfused Pig Hearts: Inhomogeneities in Extracellular Potassium, ST and TQ Potentials, and Transmembrane Action Potentials, 1131

Ryanodine receptor

Differences in Cardiac Calcium Release Channel (Ryanodine Receptor) Expression in Myocardium From Patients With End-Stage Heart Failure Caused by Ischemic Versus Dilated Cardiomyopathy, 18

S

Salicylic acid

Quantification of Hydroxyl Radical and Its Lack of Relevance to Myocardial Injury During Early Reperfusion After Graded Ischemia in Rat Hearts, 96

Sarcoplasmic reticulum

Cardiac Sarcoplasmic Reticulum Chloride Channels Regulated by Protein Kinase A, 585

Effect of Ischemia and Reperfusion on Sarcoplasmic Reticulum Calcium Uptake, 1123

Sarcoplasmic reticulum Ca^{2+} release

Positive Chronotropic Responses Induced by α_1 -Adrenergic Stimulation of Normal and "Ischemic" Purkinje Fibers Have Different Receptor-Effector Coupling Mechanisms, 526

Serotonin

Mechanism of Ergonovine-Induced Hyperconstriction of the Large Epicardial Coronary Artery in Conscious Dogs a Month After Arterial Injury, 435

Single cardiomyocytes

Developmental Changes in Long-Opening Behavior of L-Type Ca^{2+} Channels in Embryonic Chick Heart Cells, 376

Single-channel current

Voltage-Dependent Gating and Single-Channel Conductance of Adult Mammalian Atrial Gap Junctions, 737

Single-channel recording

Cardiac Sarcoplasmic Reticulum Chloride Channels Regulated by Protein Kinase A, 585

Sinus node

Gap Junctional Channels in Adult Mammalian Sinus Nodal Cells: Immunolocalization and Electrophysiology, 229

Site-directed mutagenesis

Differential Effects of Elevating $[\text{K}]_o$ on Three Transient Outward Potassium Channels: Dependence on Channel Inactivation Mechanisms, 657

Skeletal muscle arterioles

Role of Endothelium-Derived Prostaglandins in Hypoxia-Elicited Arteriolar Dilation in Rat Skeletal Muscle, 790

Smooth muscle

Influence of Vascular Smooth Muscle Heterogeneity on Angiotensin Converting Enzyme Activity in Chicken Embryonic Aorta and in Endothelial Cells in Culture, 923

Smooth muscle cell diversity

Rat Carotid Neointimal Smooth Muscle Cells Reexpress a Developmentally Regulated mRNA Phenotype During Repair of Arterial Injury, 759

Smooth muscle cell proliferation

Platelet-Derived Growth Factor Suppresses and Fibroblast Growth Factor Enhances Cytokine-Induced Production of Nitric Oxide by Cultured Smooth Muscle Cells: Effects on Cell Proliferation, 1088

Regulation of Platelet-Derived Growth Factor Ligand and Receptor Gene Expression by α -Thrombin in Vascular Smooth Muscle Cells, 1285

Smooth muscle cells

Coronary Collateral Development in Swine After Coronary Artery Occlusion, 1490

Effects of External pH on Ionic Currents in Smooth Muscle Cells From the Basilar Artery of the Guinea Pig, 201

Identification and Characterization of Developmentally Regulated Genes in Vascular Smooth Muscle Cells, 711

Phenotype-Related Alteration in Expression of Natriuretic Peptide Receptors in Aortic Smooth Muscle Cells, 34

SNARF-1

Different Effects of α - and β -Adrenergic Stimulation on Cytosolic pH and Myofilament Responsiveness to Ca^{2+} in Cardiac Myocytes, 870

Sodium

Impaired Myogenic Responsiveness of Renal Microvessels in Dahl Salt-Sensitive Rats, 471

Sodium current

Characterization of the Sodium Current in Single Human Atrial Myocytes, 535

Sodium pump

Endothelial Modulation of the Ouabain-Induced Contraction in Human Placental Vessels, 943

Regulation of Na,K-ATPase Gene Expression by Thyroid Hormone in Rat Cardiocytes, 1457

Spontaneously hypertensive rats

Age-Related Changes in Fibronectin Expression in Spontaneously Hypertensive, Wistar-Kyoto, and Wistar Rat Hearts, 1341

ST-TQ segment changes

Reperfusion Arrhythmias in Isolated Perfused Pig Hearts: Inhomogeneities in Extracellular Potassium, ST and TQ Potentials, and Transmembrane Action Potentials, 1131

Stiffness

Effects of Cycling and Rigor Crossbridges on the Conformation of Cardiac Troponin C, 984

Strahler ordering

Branching Patterns in the Porcine Coronary Arterial Tree: Estimation of Flow Heterogeneity, 1200

Stress

α B-Crystallin in Cardiac Tissue: Association With Actin and Desmin Filaments, 288

Stretch receptors

Permeability of Rat Atrial Endocardium, Epicardium, and Myocardium to Large Molecules: Stretch-Dependent Effects, 159

Stunned myocardium

Mechanisms of Subendocardial Dysfunction in Response to Exercise in Dogs With Severe Left Ventricular Hypertrophy, 423

Proto-oncogene Expression in Porcine Myocardium Subjected to Ischemia and Reperfusion, 1351

Stunning

Decreased Myofilament Responsiveness in Myocardial Stunning Follows Transient Calcium Overload During Ischemia and Reperfusion, 1334

Subfragment-1

Product Inhibition of the Actomyosin Subfragment-1 ATPase in Skeletal, Cardiac, and Smooth Muscle, 1067

Subtype

Authoradiographic Characterization of β -Adrenergic Receptor Subtype in the Canine Conduction System, 51

Sympathetic coronary vasoconstriction

Effect of Brief Myocardial Ischemia on Sympathetic Coronary Vasoconstriction, 960

Sympathetic nervous system

Sympathetic Stimulation and Norepinephrine Infusion Modulate Extracellular Potassium Concentration During Acute Myocardial Ischemia, 1078

Sympathetic stimulation

Mechanism of Hind Limb Vasoconstriction Due to Cyclosporin A in the Dog, 1159

Synchronization

Gap Junctional Channels in Adult Mammalian Sinus Nodal Cells: Immunolocalization and Electrophysiology, 229

Synchronous openings

Inward Sodium Current at Resting Potentials in Single Cardiac Myocytes Induced by the Ischemic Metabolite Lysophosphatidylcholine, 1231

T**T-type calcium current**

Endothelin-1 Enhances Calcium Entry Through T-Type Calcium Channels in Cultured Neonatal Rat Ventricular Myocytes, 1242

Tachycardia

Relation Between Ventricular and Myocyte Function With Tachycardia-Induced Cardiomyopathy, 174

Tear threshold

Biomechanical Properties of Reperfused Transmural Myocardial Infarcts in Rabbits During the First Week After Infarction: Implications for Left Ventricular Rupture, 401

Tethered ligand

Thrombin Receptor 14-Amino Acid Peptide Mediates Endothelial Hyperadhesivity and Neutrophil Adhesion by P-Selectin-Dependent Mechanism, 1015

Tetrodotoxin

Characterization of the Sodium Current in Single Human Atrial Myocytes, 535

Theophylline

Effect of Caffeine on Expression of Cardiac Myosin Heavy Chain Gene in Adult Hypothyroid and Fetal Rats, 1031
Extracellular and Intracellular Actions of Adenosine and Related Compounds in the Reperfused Rat Intestine, 720

Thiol groups

Depression of Cardiac Sarcolemmal Phospholipase D Activity by Oxidant-Induced Thiol Modification, 970

 α -Thrombin

Regulation of Platelet-Derived Growth Factor Ligand and Receptor Gene Expression by α -Thrombin in Vascular Smooth Muscle Cells, 1285

Thrombin Receptor 14-Amino Acid Peptide Mediates Endothelial Hyperadhesivity and Neutrophil Adhesion by P-Selectin-Dependent Mechanism, 1015

Thrombin receptor

Thrombin Receptor 14-Amino Acid Peptide Mediates Endothelial Hyperadhesivity and Neutrophil Adhesion by P-Selectin-Dependent Mechanism, 1015

Thrombogenic site

Heparin Adheres to the Damaged Arterial Wall and Inhibits Its Thrombogenicity, 577

Thrombosis

Heparin Adheres to the Damaged Arterial Wall and Inhibits Its Thrombogenicity, 577

Thyroid hormone

Decreased Collagen Gene Expression and Absence of Fibrosis in Thyroid Hormone-Induced Myocardial Hypertrophy: Response of Cardiac Fibroblasts to Thyroid Hormone In Vitro, 831

Regulation of Na,K-ATPase Gene Expression by Thyroid Hormone in Rat Cardiocytes, 1457

Tight junctions

Permeability of Rat Atrial Endocardium, Epicardium, and Myocardium to Large Molecules: Stretch-Dependent Effects, 159

Tissue

Acidic and Basic Fibroblast Growth Factors in Adult Rat Heart Myocytes: Localization, Regulation in Culture, and Effects on DNA Synthesis, 251

Topology

Branching Patterns in the Porcine Coronary Arterial Tree: Estimation of Flow Heterogeneity, 1200

Transcytosis

Permeability of Rat Atrial Endocardium, Epicardium, and Myocardium to Large Molecules: Stretch-Dependent Effects, 159

Transendothelial transport

Measurement of Endothelial Permeability to 125 I-Low Density Lipoproteins in Rabbit Arteries by Use of En Face Preparations, 883

Transient outward current

Age-Related Appearance of Outward Currents May Contribute to Developmental Differences in Ventricular Repolarization, 1390

Functional Expression of an Inactivating Potassium Channel Cloned From Human Heart, 732

Transmembrane potential

Reperfusion Arrhythmias in Isolated Perfused Pig Hearts: Inhomogeneities in Extracellular Potassium, ST and TQ Potentials, and Transmembrane Action Potentials, 1131

Transmembrane potentials

Persisting Zones of Slow Impulse Conduction in Developing Chicken Hearts, 240

Transmethylation

Comprehensive Model of Transport and Metabolism of Adenosine and S-Adenosylhomocysteine in the Guinea Pig Heart, 590

Tropoelastin

Rat Carotid Neointimal Smooth Muscle Cells Reexpress a Developmentally Regulated mRNA Phenotype During Repair of Arterial Injury, 759

 α -Tropomyosin

Platelet-Derived Growth Factor-BB-Induced Suppression of Smooth Muscle Cell Differentiation, 1525

Troponin C

Effects of Cycling and Rigor Crossbridges on the Conformation of Cardiac Troponin C, 984

Tumor necrosis factor

Interferon- γ and Tumor Necrosis Factor Synergize to Induce Nitric Oxide Production and Inhibit Mitochondrial Respiration in Vascular Smooth Muscle Cells, 1268

Two-phase media

Arterial Mechanics in Spontaneously Hypertensive Rats: Mechanical Properties, Hydraulic Conductivity, and Two-Phase (Solid/Fluid) Finite Element Models, 145

Tyrosine phosphorylation

Angiotensin II Stimulates Two Myelin Basic Protein/Microtubule-Associated Protein 2 Kinases in Cultured Vascular Smooth Muscle Cells, 620

U**Ultrastructure**

Relation Between Ventricular and Myocyte Function With Tachycardia-Induced Cardiomyopathy, 174

V**Vagus nerves**

Sequence of Excitation as a Factor in Sympathetic-Parasympathetic Interactions in the Heart, 898

Vasa recta

Relation Between Vasa Recta Blood Flow and Renal Interstitial Hydrostatic Pressure During Pressure Natriuresis, 1153

Vascular damage

Heparin Adheres to the Damaged Arterial Wall and Inhibits Its Thrombogenicity, 577

Vascular endothelium

Lysophosphatidylcholine Inhibits Bradykinin-Induced Phosphoinositide Hydrolysis and Calcium Transients in Cultured Bovine Aortic Endothelial Cells, 1410

Vascular smooth muscle

Culture of Renal Arteriolar Smooth Muscle Cells: Mitogenic Responses to Angiotensin II, 1143

Cultured Rat Aortic Vascular Smooth Muscle Cells Digest Naturally Produced Extracellular Matrix: Involvement of Plasminogen-Dependent and Plasminogen-Independent Pathways, 385

Endothelin Increases Myofilament Ca^{2+} Sensitivity in α -Toxin-Permeabilized Rabbit Mesenteric Artery, 951

Interferon- γ and Tumor Necrosis Factor Synergize to Induce Nitric Oxide Production and Inhibit Mitochondrial Respiration in Vascular Smooth Muscle Cells, 1268

Ionic Currents in Single Smooth Muscle Cells of the Canine Renal Artery, 745

Mechanisms of Vasodilation Induced by NKH477, a Water-Soluble Forskolin Derivative, in Smooth Muscle of the Porcine Coronary Artery, 70

Potentialization of Endothelium-Dependent Relaxations to Bradykinin by Angiotensin I Converting Enzyme Inhibitors in

- Canine Coronary Artery Involves Both Endothelium-Derived Relaxing and Hyperpolarizing Factors, 137
- Role of Endothelium-Derived Prostaglandins in Hypoxia-Elicited Arteriolar Dilation in Rat Skeletal Muscle, 790
- Vascular smooth muscle cells**
- Angiotensin II Stimulates Two Myelin Basic Protein/Microtubule-Associated Protein 2 Kinases in Cultured Vascular Smooth Muscle Cells, 620
- In Vitro Effects of a Recombinant Toxin Targeted to the Fibroblast Growth Factor Receptor on Rat Vascular Smooth Muscle and Endothelial Cells, 640
- Platelet-Derived Growth Factor Isoforms Decrease Insulin-like Growth Factor I Gene Expression in Rat Vascular Smooth Muscle Cells and Selectively Stimulate the Biosynthesis of Insulin-like Growth Factor Binding Protein 4, 646
- Vasorelaxation**
- Effects on the Rabbit Coronary Artery of LP-805, a New Type of Releaser of Endothelium-Derived Relaxing Factor and a K^+ Channel Opener, 859
- Veins**
- Intraluminal Flow Increases Vascular Tone and $^{45}Ca^{2+}$ Influx in the Rabbit Facial Vein, 339
- Ventricular arrhythmias**
- Body Surface Mapping of Ectopic Left Ventricular Activation: QRS Spectrum in Patients With Prior Myocardial Infarction, 1361
- Ventricular arterial matching**
- Mechanical Matching of the Left Ventricle With the Arterial System in Exercising Dogs, 481
- Ventricular energetics**
- Basal Metabolism Adds a Significant Offset to Unloaded Myocardial Oxygen Consumption per Minute, 414
- Ventricular fibrillation**
- Myocardial Energetics During Ventricular Fibrillation Investigated by Magnetization Transfer Nuclear Magnetic Resonance Spectroscopy, 1111
- Reperfusion-Induced Arrhythmias: A Role for Washout of Extracellular Protons? 1429
- Ventricular function**
- Effect of Reduced Aortic Compliance on Cardiac Efficiency and Contractile Function of In Situ Canine Left Ventricle, 490
- Relation Between Ventricular and Myocyte Function With Tachycardia-Induced Cardiomyopathy, 174
- Ventricular hypertrophy**
- Coronary Blood Flow After the Regression of Pressure-Overload Left Ventricular Hypertrophy, 1472
- Ventricular myocytes**
- Effects of 2,4-Dinitrophenol or Low $[ATP]_i$ on Cell Excitability and Action Potential Propagation in Guinea Pig Ventricular Myocytes, 821
- Verapamil Diminishes Action Potential Changes During Metabolic Inhibition by Blocking ATP-Regulated Potassium Currents, 87
- Ventricular repolarization**
- Age-Related Appearance of Outward Currents May Contribute to Developmental Differences in Ventricular Repolarization, 1390
- Ventriculovascular coupling**
- Effect of Reduced Aortic Compliance on Cardiac Efficiency and Contractile Function of In Situ Canine Left Ventricle, 490
- Venules**
- Interaction Between Microvascular α_1 - and α_2 -Adrenoceptors and Endothelium-Derived Relaxing Factor, 188
- Vessel tone**
- Prostaglandin D_2 Relaxes Bovine Coronary Arteries by Endothelium-Dependent Nitric Oxide-Mediated cGMP Formation, 1305
- Voltage dependence**
- Voltage-Dependent Gating and Single-Channel Conductance of Adult Mammalian Atrial Gap Junctions, 737
- Volume conductor**
- A Model Study of Volume Conductor Effects on Endocardial and Intracavitary Potentials, 511
- W**
- Wall thickness**
- Mechanisms of Subendocardial Dysfunction in Response to Exercise in Dogs With Severe Left Ventricular Hypertrophy, 423
- Whole-cell voltage clamp**
- Characterization of the Sodium Current in Single Human Atrial Myocytes, 535
- Wistar rats**
- Age-Related Changes in Fibronectin Expression in Spontaneously Hypertensive, Wistar-Kyoto, and Wistar Rat Hearts, 1341
- X**
- X-ray microanalysis**
- Subcellular Electrolyte Alterations During Progressive Hypoxia and Following Reoxygenation in Isolated Neonatal Rat Ventricular Myocytes, 106
- Xenopus oocytes**
- Differential Effects of Elevating $[K]_o$ on Three Transient Outward Potassium Channels: Dependence on Channel Inactivation Mechanisms, 657
- Z**
- ZK 110.841**
- Prostaglandin D_2 Relaxes Bovine Coronary Arteries by Endothelium-Dependent Nitric Oxide-Mediated cGMP Formation, 1305